



Air Conditioning Technical Data

Round flow cassette



EEDEN16-204

FXFQ-A

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FXFQ-A

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1 Features

360° air discharge for optimum efficiency and comfort

- Daily automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter (for fine dust applications e.g. clothing shops)
- Two optional intelligent sensors improve energy efficiency and comfort.
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Modern style decoration panel is available in 3 different variations: white (RAL9010) with grey louvers, full white (RAL9010) or auto cleaning panel
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
- Lowest installation height in the market: 214mm for class 20-63
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Standard drain pump with 675mm lift increases flexibility and installation speed



								
Inverter	Presence & floor sensor	Home leave operation	Fan only	Auto-cleaning filter	Draught prevention	Auto cooling-heating changeover	Whisper quiet	Ceiling soiling prevention
								
Individual flap control	Vertical auto swing	Fan speed steps	Dry programme	Air filter	Weekly timer	Infrared remote control	Wired remote control	Centralised control
								
Auto-restart	Self diagnosis	Multi tenant	Drain pump kit					

2 Specifications

2-1 Technical Specifications					FXFQ20A	FXFQ25A	FXFQ32A	FXFQ40A	FXFQ50A	FXFQ63A	FXFQ80A	FXFQ100 A	FXFQ125 A	
Cooling capacity	Nom.			kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	
Heating capacity	Nom.			kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
Power input - 50Hz	Cooling	Nom.	kW	0.038					0.053	0.061	0.092	0.115	0.186	
	Heating	Nom.	kW	0.038					0.053	0.061	0.092	0.115	0.186	
Power input - 60Hz	Cooling	Nom.	kW	0.038					0.053	0.061	0.092	0.115	0.186	
	Heating	Nom.	kW	0.038					0.053	0.061	0.092	0.115	0.186	
Dimensions	Unit	Height	mm	204							246		288	
		Width	mm	840										
		Depth	mm	840										
	Packed unit	Height	mm	220							260		300	
		Width	mm	880										
		Depth	mm	880										
Weight	Unit		kg	19			20	21		24		26		
	Packed unit		kg	23			24	26		29		31		
Casing	Material			Galvanised steel plate										
Decoration panel	Model			BYCQ140D7GFW1 - auto cleaning panel with fine mesh filter										
	Colour			Pure White (RAL 9010)										
	Dimensions	Height	mm	130										
		Width	mm	950										
		Depth	mm	950										
	Weight		kg	10.3										
Decoration panel 2	Model			BYCQ140D7GW1 - auto cleaning panel										
	Colour			Pure White (RAL 9010)										
	Dimensions	Height	mm	130										
		Width	mm	950										
		Depth	mm	950										
	Weight		kg	10.3										
Decoration panel 3	Model			BYCQ140D7W1W - full white										
	Colour			Pure White (RAL 9010)										
	Dimensions	Height	mm	50										
		Width	mm	950										
		Depth	mm	950										
	Weight		kg	5.4										
Decoration panel 4	Model			BYCQ140D7W1 - white with grey louvers										
	Colour			Pure white (RAL 9010)										
	Dimensions	Height	mm	50										
		Width	mm	950										
		Depth	mm	950										
	Weight		kg	5.4										
Heat exchanger	Type			Cross fin coil (multi slit fins and HI-XA tubes)										
	Inside length		mm	2,134					2,090					
	Outside length		mm	2,181					2,184					
	Rows	Quantity			2					3				
	Fin pitch		mm	1.2										
	Passes	Quantity			4			6	12		14		17	
	Face area		m²	0.278			0.366	0.371		0.464		0.556		
	Stages	Quantity			9			12			15		18	
	Empty tubeplate hole	Quantity			0									
Fan	Type			Turbo fan										
	Quantity			1										
	Air flow rate - 50Hz	Cooling	High	m³/min	12.5			13.6	15.0	16.5	22.8	26.5	33.0	
			Nom.	m³/min	10.6			11.6	12.8	13.5	17.6	19.5	26.5	
			Low	m³/min	8.8			9.5	10.5		12.4		19.9	
		Heating	High	m³/min	12.5			13.6	15.0	16.5	22.8	26.5	33.0	
			Nom.	m³/min	10.6			11.6	12.8	13.5	17.6	19.5	26.5	
			Low	m³/min	8.8			9.5	10.5		12.4		19.9	

2 Specifications

2-1 Technical Specifications				FXFQ20A	FXFQ25A	FXFQ32A	FXFQ40A	FXFQ50A	FXFQ63A	FXFQ80A	FXFQ100 A	FXFQ125 A
Fan motor	Model			QTS48D11M						QTS48C15M		
	Speed	Steps		3								
	Output	High	W	48								
Air filter	Type			Resin net with mold resistance								
Sound power level	Cooling	High	dBA	49		51		53	55	60	61	
Sound pressure level	Cooling	High	dBA	31		33		35	38	43	45	
		Nom.	dBA	29		31		33	34	37	41	
		Low	dBA	28		29		30			36	
	Heating	High	dBA	31		33		35	38	43	45	
		Nom.	dBA	29		31		33	34	37	41	
		Low	dBA	28		29		30			36	
Refrigerant	Type			R-410A								
Piping connections	Liquid	Type		Flare connection								
		OD	mm	6.35				9.52				
	Gas	Type		Flare connection								
		OD	mm	12.7				15.9				
	Drain			VP25 (O.D. 32 / I.D. 25)								
	Heat insulation			Foamed polystyrene / Foamed polyethylene								
Sound absorbing insulation			Foamed Polyurethane									
Control systems	Infrared remote control			BRC7FA532F								
	Wired remote control			BRC1D52 / BRC1E52A/B								
	Simplified wired remote control for hotel applications			-								

Standard Accessories : Operation manual; Quantity : 1;
 Standard Accessories : Installation manual; Quantity : 1;
 Standard Accessories : Drain hose; Quantity : 1;
 Standard Accessories : Clamp for drain hose; Quantity : 1;
 Standard Accessories : Washer for hanger bracket; Quantity : 1;
 Standard Accessories : Screws; Quantity : 1;
 Standard Accessories : Installation guide; Quantity : 1;
 Standard Accessories : Insulation for fitting; Quantity : 2;
 Standard Accessories : Sealing pads; Quantity : 4;
 Standard Accessories : Drain sealing pad; Quantity : 1;
 Standard Accessories : Clamps; Quantity : 1;

2-2 Electrical Specifications				FXFQ20A	FXFQ25A	FXFQ32A	FXFQ40A	FXFQ50A	FXFQ63A	FXFQ80A	FXFQ100 A	FXFQ125 A
Power supply	Phase			1~								
	Frequency		Hz	50/60								
	Voltage		V	220-240/220								
Voltage range	Min.		%	-10								
	Max.		%	10								
Current - 50Hz	Minimum circuit amps (MCA)		A	0.3				0.4		0.6	0.8	1.3
	Maximum fuse amps (MFA)		A	16								
	Full load amps (FLA)	Total	A	0.2				0.3		0.5	0.6	1.0
Current - 60Hz	Minimum circuit amps (MCA)		A	0.3				0.4		0.6	0.8	1.3
	Maximum fuse amps (MFA)		A	16								
	Full load amps (FLA)	Total	A	0.2				0.3		0.5	0.6	1.0

2 Specifications

Notes

Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB

Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB

The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt.

The sound power level is an absolute value indicating the power which a sound source generates.

Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

Maximum allowable voltage range variation between phases is 2%.

MCA/MFA: $MCA = 1.25 \times FLA$

$MFA \leq 4 \times FLA$

Next lower standard fuse rating minimum 16A

Select wire size based on the value of MCA

Instead of a fuse, use a circuit breaker

BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.

Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

FXFQ-A

MODEL	UNITS		Voltage range	Power supply		IFM	INPUT (W)	
	Hz	Volts		MCA	MFA		FLA	COOLING HEATING
FXFQ20A	50	220 - 240	Max. 264 Min. 198	0.3	16	0.2	38	35
FXFQ25A		220 - 240		0.3	16	0.2	38	35
FXFQ32A		220 - 240		0.3	16	0.2	38	35
FXFQ40A		220 - 240		0.3	16	0.2	38	35
FXFQ50A		220 - 240		0.4	16	0.3	53	50
FXFQ63A		220 - 240		0.4	16	0.3	61	58
FXFQ80A		220 - 240		0.6	16	0.5	92	89
FXFQ100A		220 - 240		0.8	16	0.6	115	112
FXFQ125A		220 - 240		1.3	16	1.0	186	183
FXFQ20A	60	220	Max. 242 Min. 198	0.3	16	0.2	38	35
FXFQ25A		220		0.3	16	0.2	38	35
FXFQ32A		220		0.3	16	0.2	38	35
FXFQ40A		220		0.3	16	0.2	38	35
FXFQ50A		220		0.4	16	0.3	53	50
FXFQ63A		220		0.4	16	0.3	61	58
FXFQ80A		220		0.6	16	0.5	92	89
FXFQ100A		220		0.8	16	0.6	115	112
FXFQ125A		220		1.3	16	1.0	186	183

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NOTES

- Voltage range
Units are suitable for use on electrical systems where the voltage supplied to the unit terminals is not below or above the listed range limits.
- Maximum allowable voltage unbalance between phases is 2%.
- MCA/MFA
 $MCA = 1.25 \times FLA$
 $MFA \leq 4 \times FLA$
(next lower standard fuse rating min. 16A)
- Select wire size based on the MCA.
- Instead of fuse, use circuit breaker.

SYMBOLS

- MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (See note 5)
IFM : Indoor Fan Motor.
FLA : Full Load Amps. (A)

4 Safety device settings

4 - 1 Safety Device Settings

FXFQ-A

Safety devices		FXFQ20~125A
Fuse		250V 3.15A (ON PCB BOARD)
Fan motor thermal fuse	°C	---
Fan motor thermal protector	°C	---
Drain pump fuse	°C	---

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5 Options

5 - 1 Options

FXFQ-A

OPTIONS

	Item	Model	FXFQ20~125A
1	Decoration panel	Standard	BYCQ140D7W1
		White	BYCQ140D7W1W *3
		Self clean	BYCQ140D7GW1 / BYCQ140D7GFW1 *5, *6, *12
2	Long life replacement filter	Non-woven type	KAFP551K160
3	Fresh air intake kit (20% fresh air)	Chamber type	(Chamber) KDDQ55B140-1 *7, *8 (diffuser from chamber to duct) KDDQ55B140-2 *7, *8
4	Sealing member of air discharge outlet		KDBHQ55B140 *7
5	Sensor kit		BRQY140A7

CONTROL SYSTEM

	Item	Model	FXFQ20~125A
1-1	Remote controller	Infrared	H/P
		Wired	BRC7FA532F *7
			BRC1D528 *4
			BRC1E51A *4
			BRC1E52A / BRC1E52B
1-2	Simplified remote controller (with operation mode selector button)		BRC2E52C *9
1-3	Simplified remote controller (without operation mode selector button)		BRC3E52C *9
2-1	Wiring adapter for electrical appendices (1)		KRP1BA57 *2 *7
2-2	Wiring adapter for electrical appendices (2)		KRP4AA53 *2 *7
2-3	Wiring adapter (hour meter)		EKRP1C11 *2 *7
3	Remote sensor		KRCS01-4B
4	Installation box for adaptor PCB		KRP1H98 *7
5	Central remote controller		DCS302CA51
6	Unified ON/OFF controller		DCS301BA51
7	Electrical box with earth terminal (2 blocks)		KJB212AA
8	Electrical box with earth terminal (3 blocks)		KJB311AA
9	Schedule timer		DST301BA51
10	Option PCB for Multi tenant		DTA114A61
11	I-touch controller		DCS601C51
12	Digital input adaptor		BRP7A53

*1 All options are supplied as kit.

*2 Installation box is necessary for these adapters

*3 The BYCQ140D7W1W has white insulations.

Be informed that formation of dirt on white insulations is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt.

*4 Not recommended because of the limitation of the functions.

*5 To be able to control the BYCQ140D7GW1/BYCQ140D7GFW1 the controller BRC1E is needed

*6 The BYCQ140D7GW1/BYCQ140D7GFW1 is not compatible with Mini-VRV, Multi and Split Non-Inverter Outdoor units.

*7 Option not available in combination with BYCQ140D7GW1/BYCQ140D7GFW1

*8 Both parts of the fresh air intake are needed for each unit.

*9 Included languages are:

Language pack - 1: English, German, French, Dutch, Spanish, Italian and Portuguese.

With PC cable - EKPPCAB3 - in combination with the Updater PC software, you can additionally change the language to:

Language pack - 2: English, Bulgarian, Croatian, Czech, Hungarian, Romanian and Slovenian.

Language pack - 3: English, Greek, Polish, Russian, Serbian, Slovakian and Turkish.

*10 Only possible in combination with simplified remote control BRC2/3E52C.

*11 Requires installation box for adaptor PCB

*12 This option is intended exclusively for usage in fine dust environments (clothing shops). Do not use this option in high humidity and/or greasy environments.

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6 Capacity tables

6 - 1 Cooling Capacity Tables

FXFQ-A

Cooling Capacity

TC: Total capacity; kW
SHC: Sensible heat capacity; kW

Unit size	Indoor air temp.													
	14.0 °CWB		16.0 °CWB		18.0 °CWB		19.0 °CWB		20.0 °CWB		22.0 °CWB		24.0 °CWB	
	20.0 °CDB		23.0 °CDB		26.0 °CDB		27.0 °CDB		28.0 °CDB		30.0 °CDB		32.0 °CDB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.7	2.4	1.7
25	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.0	2.1	3.1	2.0
32	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.8	3.9	2.7	4.0	2.6
40	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.7	3.5	4.9	3.0	5.0	3.1
50	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	5.9	4.2	6.0	3.7	6.2	3.8
63	4.8	4.0	5.7	4.6	6.6	5.1	7.1	5.2	7.2	5.1	7.4	4.8	7.5	4.6
80	6.1	5.2	7.2	5.8	8.4	6.4	9.0	6.5	9.5	6.6	9.7	6.4	9.9	6.1
100	7.6	6.2	9.0	6.9	10.5	7.7	11.2	7.8	11.8	7.9	12.1	7.6	12.3	7.3
125	9.5	7.7	11.3	8.6	13.1	9.6	14.0	9.8	14.8	9.8	15.1	9.5	15.4	9.1

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NOTES - OPMERKINGEN - REMARQUES - ANMERKUNGEN - NOTAS - NOTE - ΣΗΜΕΙΩΣΕΙΣ - NOTLAR - ПРИМЕЧАНИЯ

- This table is for the selection of indoor equipment.
 - Deze tabel is bedoeld voor het kiezen van de binnenunit.
 - Ce tableau concerne la sélection de l'équipement intérieur.
 - Diese Tabelle ist für die Auswahl der Innenanlagen.
 - Esta tabla es para seleccionar el equipo interior.
 - Usare questa tabella per la selezione delle apparecchiature interne.
 - Αυτός ο πίνακας προορίζεται για την επιλογή εσωτερικού εξοπλισμού.
 - Bu tablo iç ünite ekipmanlarının seçimine yöneliktir.
 - Эта таблица предназначена для выбора устанавливаемого в помещении оборудования.
- In the event that conditions differ due to the design requirements after system selection, actual operating ability of the indoor equipment will differ from that noted in the table because of changes in the outdoor air temperature and load factor.
 - Als nadat u het systeem hebt gekozen de voorwaarden afwijken van de ontwerpvereisten, dan zal het reële bedrijfsvermogen van de binnenunit afwijken van de in de tabel vermelde gegevens, wegens de afwijkende buitenluchttemperatuur en de belastingsfactor.
 - Si les exigences de conception après la sélection du système entraînent une modification des conditions, les capacités opérationnelles réelles de l'équipement intérieur diffèrent de celles indiquées dans le tableau en raison de la modification de la température de l'air extérieure et du facteur de charge.
 - Falls Bedingungen aufgrund der Konstruktionsanforderungen nach der Systemauswahl abweichen, dann weicht aufgrund der Änderungen der Außenlufttemperatur und des Lastfaktors die tatsächliche Betriebsfähigkeit der Innenanlage von der in der Tabelle aufgeführten ab.
 - En caso de que las condiciones difieran debido a los requisitos de diseño tras seleccionar el sistema, la capacidad de funcionamiento real del equipo interior diferirá de la que se muestra en la tabla debido a los cambios de la temperatura de aire exterior y al factor de carga.
 - Nel caso in cui intervenissero dei cambiamenti nelle condizioni dovuti a requisiti di progettazione successivi alla selezione del sistema, la capacità operativa effettiva delle apparecchiature interne sarà diversa da quella indicata in tabella a causa della diversa temperatura dell'aria esterna e del fattore di carico.
 - Στην περίπτωση που οι συνθήκες διαφέρουν λόγω των απαιτήσεων σχεδιασμού μετά την επιλογή συστήματος, η πραγματική δυνατότητα του εσωτερικού εξοπλισμού θα διαφέρει από την αναφερόμενη στον πίνακα, λόγω των αλλαγών στην εξωτερική θερμοκρασία αέρα και στο συντελεστή φόρτισης.
 - Sistem seçiminin sonra tasarım gerekleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipman gerçek çalışma kapasitesi tablodaki belirtilenden farklı olacaktır.
 - В случае, если реальные условия отличаются от проектных условий работы, используемых при выборе системы, фактические характеристики устанавливаемого в помещении оборудования будут отличаться от указанных в таблице вследствие изменения температуры воздуха снаружи и показателя нагрузки.
- In this case, use the ability table for the indoor equipment selected and correct for the ratio of change in ability.
 - Gebruik in dat geval de vermogenstabel van de gekozen binneninstallatie en kies het juiste vermogen.
 - Le cas échéant, utiliser le tableau de capacité de l'équipement intérieur sélectionner et corriger le rapport de modification de capacité.
 - Verwenden Sie in diesem Fall die Fähigkeit für die ausgewählte Innenanlage und korrigieren Sie das Verhältnis der Änderung in der Fähigkeit.
 - En este caso, utilice la tabla de capacidades del equipo interior seleccionado y corrija la relación de cambio en capacidad.
 - In questo caso, usare la tabella delle capacità per le apparecchiature interne selezionate ed apportare le modifiche del caso in base alla percentuale di cambiamento di capacità.
 - Σε αυτή την περίπτωση χρησιμοποιήστε τον πίνακα δυνατοτήτων για τον επιλεγμένο εσωτερικό εξοπλισμό και διορθώστε για την αναλογία αλλαγής στη δυνατότητα.
 - Bu durumda, seçilen iç ekipman için kapasite tablosunu kullanın ve kapasitedeki değişim oranına göre düzeltilme yapın.
 - В этом случае используйте таблицу характеристик выбранного устанавливаемого в помещении оборудования и внесите необходимую поправку на их изменение.

6 Capacity tables

6 - 2 Heating Capacity Tables

FXFQ-A

Heating Capacity

Unit size	Indoor air temp. °CDB					
	16.0	18.0	20.0	21.0	22.0	24.0
	kW	kW	kW	kW	kW	kW
20	2.6	2.6	2.5	2.4	2.3	2.2
25	3.4	3.4	3.2	3.1	3.0	2.8
32	4.2	4.2	4.0	3.9	3.7	3.5
40	5.2	5.2	5.0	4.8	4.7	4.4
50	6.6	6.6	6.3	6.1	5.9	5.5
63	8.4	8.4	8.0	7.7	7.5	7.0
80	10.5	10.5	10.0	9.7	9.4	8.7
100	13.1	13.1	12.5	12.1	11.7	10.9
125	16.8	16.8	16.0	15.5	15.0	13.9

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NOTES - OPMERKINGEN - REMARQUES - ANMERKUNGEN - NOTAS - NOTE - ΣΗΜΕΙΩΣΕΙΣ - NOTLAR - ПРИМЕЧАНИЯ

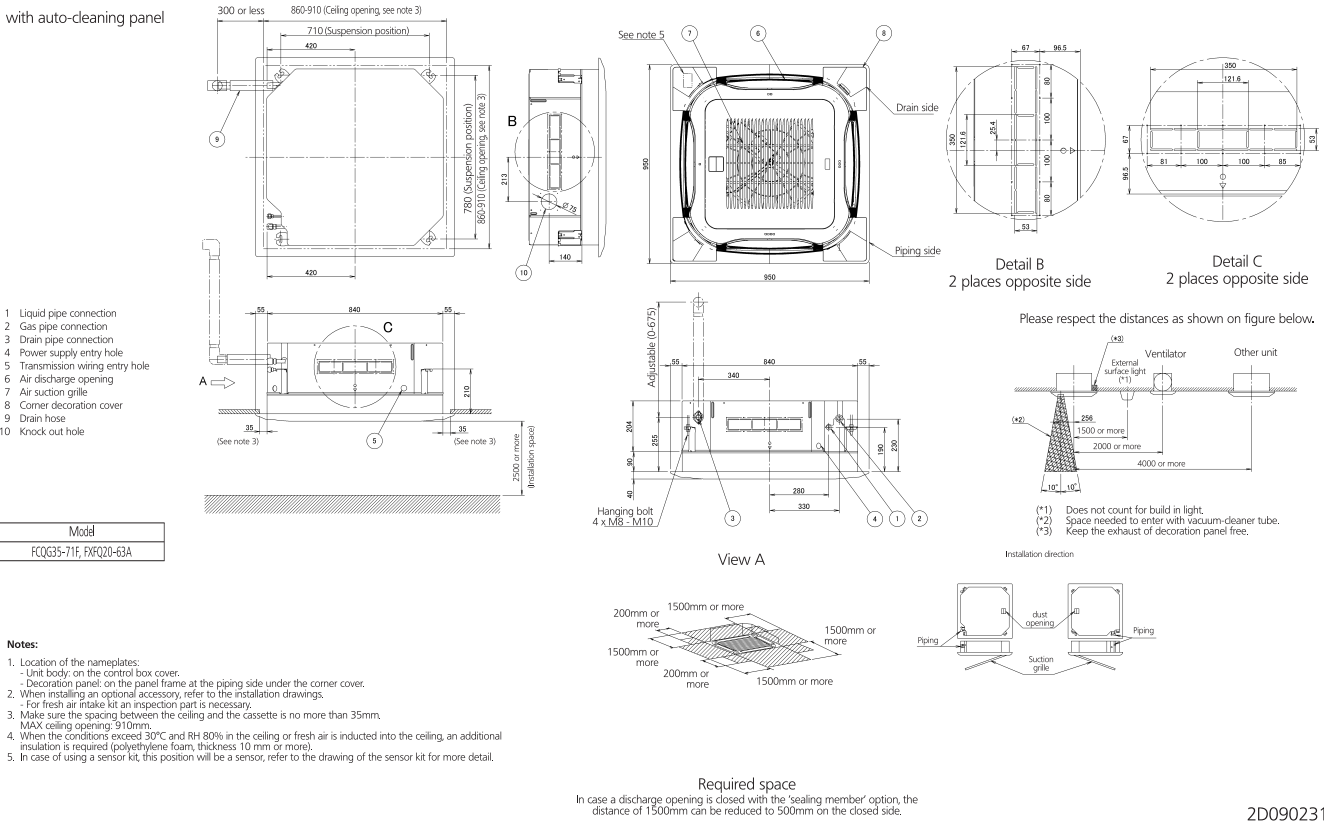
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 - Эта таблица предназначена для выбора устанавливаемого в помещении оборудования.
- In the event that conditions differ due to the design requirements after system selection, actual operating ability of the indoor equipment will differ from that noted in the table because of changes in the outdoor air temperature and load factor.
 - Als nadat u het systeem hebt gekozen de voorwaarden afwijken van de ontwerpvereisten, dan zal het reële bedrijfsvermogen van de binnenunit afwijken van de in de tabel vermelde gegevens, wegens de afwijkende buitenluchttemperatuur en de belastingsfactor.
 - Si les exigences de conception après la sélection du système entraînent une modification des conditions, les capacités opérationnelles réelles de l'équipement intérieur diffèrent de celles indiquées dans le tableau en raison de la modification de la température de l'air extérieure et du facteur de charge.
 - Falls Bedingungen aufgrund der Konstruktionsanforderungen nach der Systemauswahl abweichen, dann weicht aufgrund der Änderungen der Außenlufttemperatur und des Lastfaktors die tatsächliche Betriebsfähigkeit der Innenanlage von der in der Tabelle aufgeführten ab.
 - En caso de que las condiciones difieran debido a los requisitos de diseño tras seleccionar el sistema, la capacidad de funcionamiento real del equipo interior diferirá de la que se muestra en la tabla debido a los cambios de la temperatura de aire exterior y al factor de carga.
 - Nel caso in cui intervenissero dei cambiamenti nelle condizioni dovuti a requisiti di progettazione successivi alla selezione del sistema, la capacità operativa effettiva delle apparecchiature interne sarà diversa da quella indicata in tabella a causa della diversa temperatura dell'aria esterna e del fattore di carico.
 - Στην περίπτωση που οι συνθήκες διαφέρουν λόγω των απαιτήσεων σχεδιασμού μετά την επιλογή συστήματος, η πραγματική δυνατότητα του εσωτερικού εξοπλισμού θα διαφέρει από την αναφερόμενη στον πίνακα, λόγω των αλλαγών στην εξωτερική θερμοκρασία αέρα και στο συντελεστή φορτίου.
 - Sistem seçiminin ardından tasarım gerekleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipman için çalışma kapasitesi tabloda belirtilenden farklı olacaktır.
 - В случае, если реальные условия отличаются от проектных условий работы, используемых при выборе системы, фактические характеристики устанавливаемого в помещении оборудования будут отличаться от указанных в таблице вследствие изменения температуры воздуха снаружи и показателя нагрузки.
- In this case, use the ability table for the indoor equipment selected and correct for the ratio of change in ability.
 - Gebruik in dat geval de vermogenstabel van de gekozen binneninstallatie en kies het juiste vermogen.
 - Le cas échéant, utiliser le tableau de capacité de l'équipement intérieur sélectionner et corriger le rapport de modification de capacité.
 - Verwenden Sie in diesem Fall die Fähigkeit für die ausgewählte Innenanlage und korrigieren Sie das Verhältnis der Änderung in der Fähigkeit.
 - En este caso, utilice la tabla de capacidades del equipo interior seleccionado y corrija la relación de cambio en capacidad.
 - In questo caso, usare la tabella delle capacità per le apparecchiature interne selezionate ed apportare le modifiche del caso in base alla percentuale di cambiamento di capacità.
 - Σε αυτή την περίπτωση χρησιμοποιήστε τον πίνακα δυνατοτήτων για τον επιλεγμένο εσωτερικό εξοπλισμό και διορθώστε για την αναλογία αλλαγής στη δυνατότητα.
 - Bu durumda, seçilen iç ekipman için kapasite tablosunu kullanın ve kapasitedeki değişim oranına göre düzeltme yapın.
 - В этом случае используйте таблицу характеристик выбранного устанавливаемого в помещении оборудования и внесите необходимую поправку на их изменение.

7 Dimensional drawings

7 - 1 Dimensional Drawings with Accessories

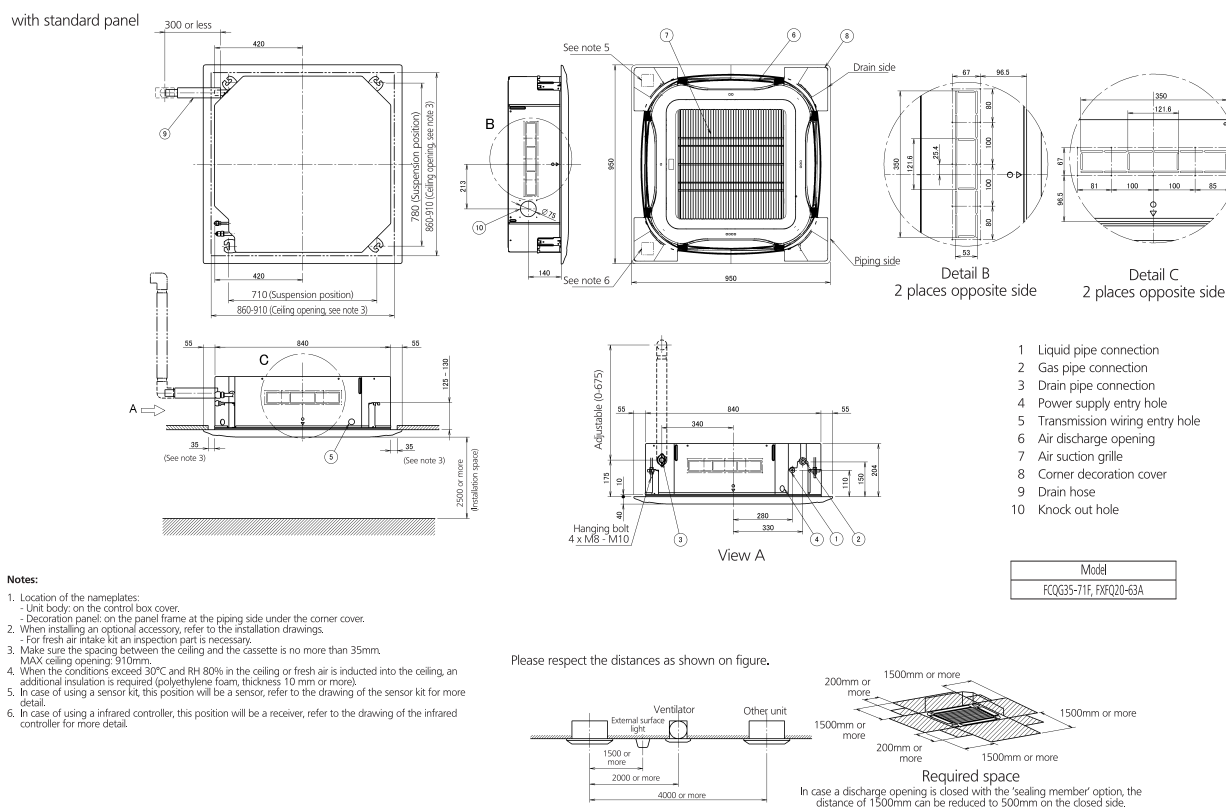
FXFQ20-63A

with auto-cleaning panel



FXFQ20-63A

with standard panel

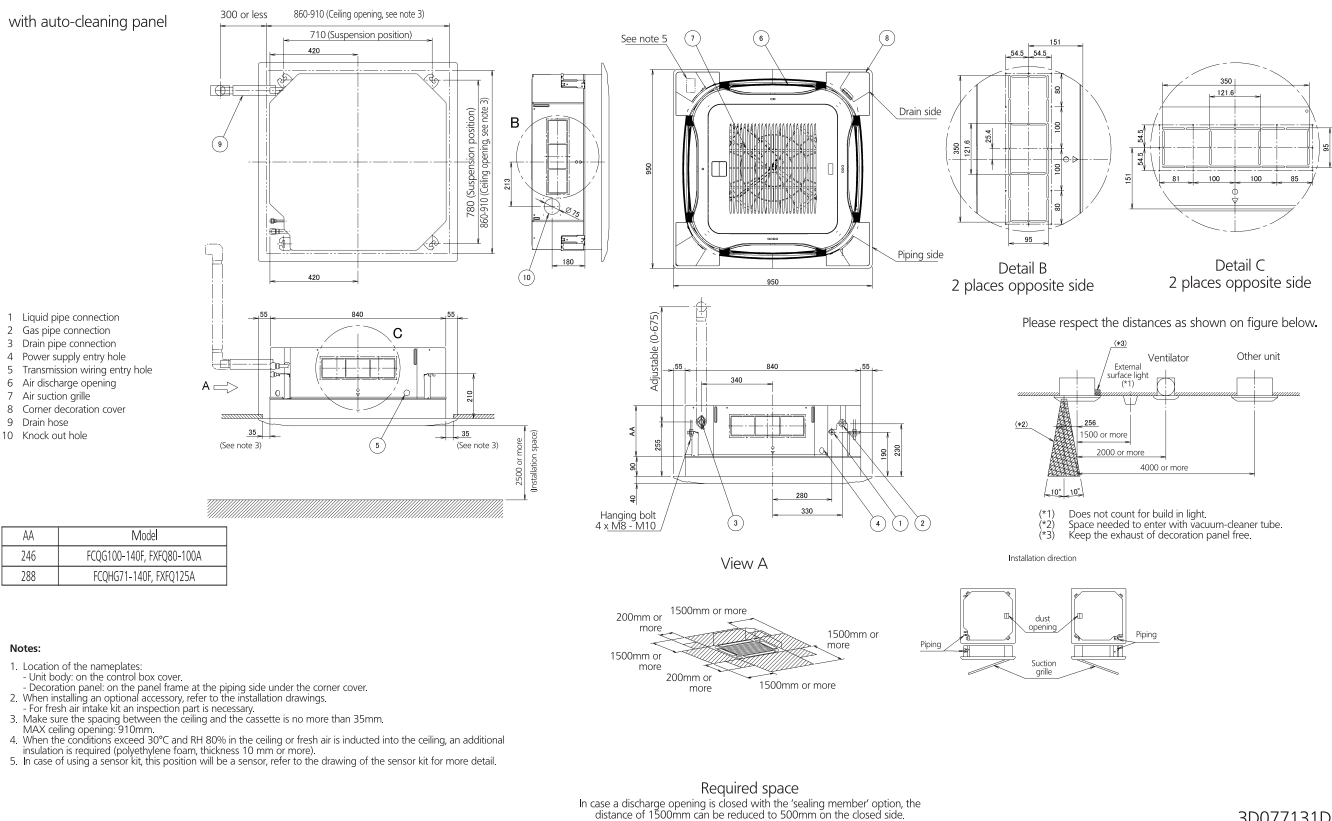


7 Dimensional drawings

7 - 1 Dimensional Drawings with Accessories

FXFQ80-125A

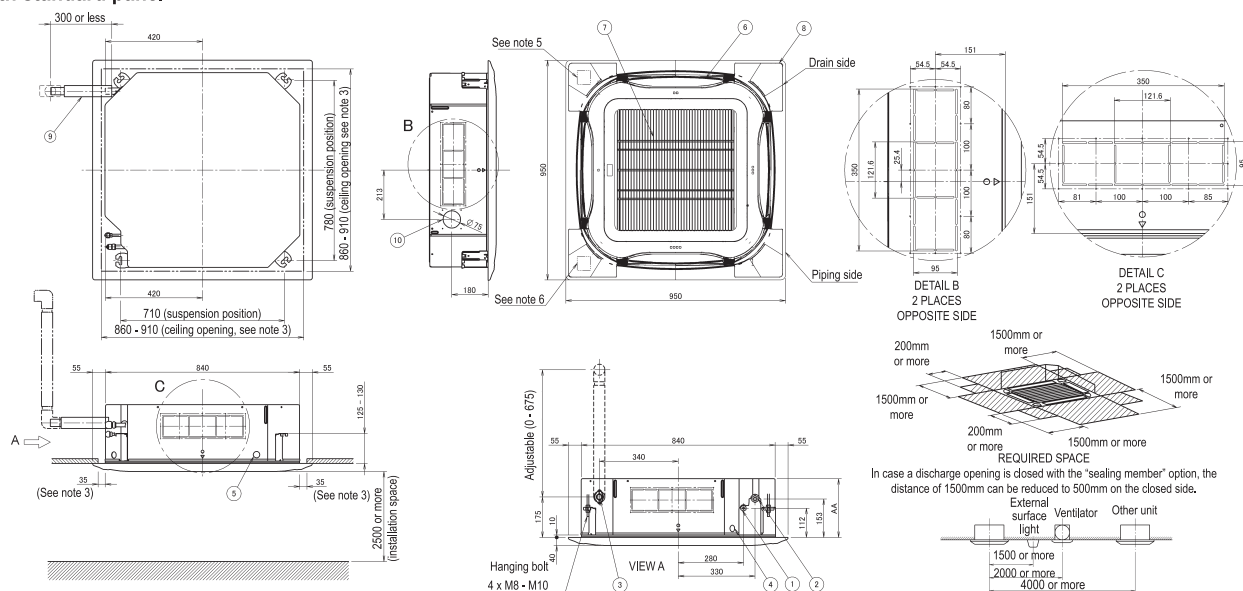
with auto-cleaning panel



Notes:

- Location of the nameplates:
- Unit body: on the control box cover.
- Decoration panel: on the panel frame at the piping side under the corner cover.
- When installing an optional accessory, refer to the installation drawings.
- For fresh air intake kit an inspection part is necessary.
- Make sure the spacing between the ceiling and the cassette is no more than 35mm.
MAX ceiling opening: 910mm.
- When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10 mm or more).
- In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail.

FXFQ80-125A with standard panel



NOTE

- Location of the nameplates
- Unit body: on the control box cover
- Decoration panel: on the panel frame at the piping side under the corner cover
- When installing an optional accessory, refer to the installation drawings.
- For fresh air intake kit an inspection part is necessary
- Make sure the spacing between the ceiling and the cassette is no more than 35mm. Max ceiling opening: 910mm
- When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10mm or more)
- In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail
- In case of using an infrared control, this position will be a receiver, refer to the drawing of the infrared control for more detail

Item	Name
1	Liquid pipe connection
2	Gas pipe connection
3	Drain pipe connection
4	Power supply entry hole
5	Transmission wiring entry hole
6	Air discharge opening
7	Air suction grille
8	Corner decoration cover
9	Drain hose
10	Knock out hole

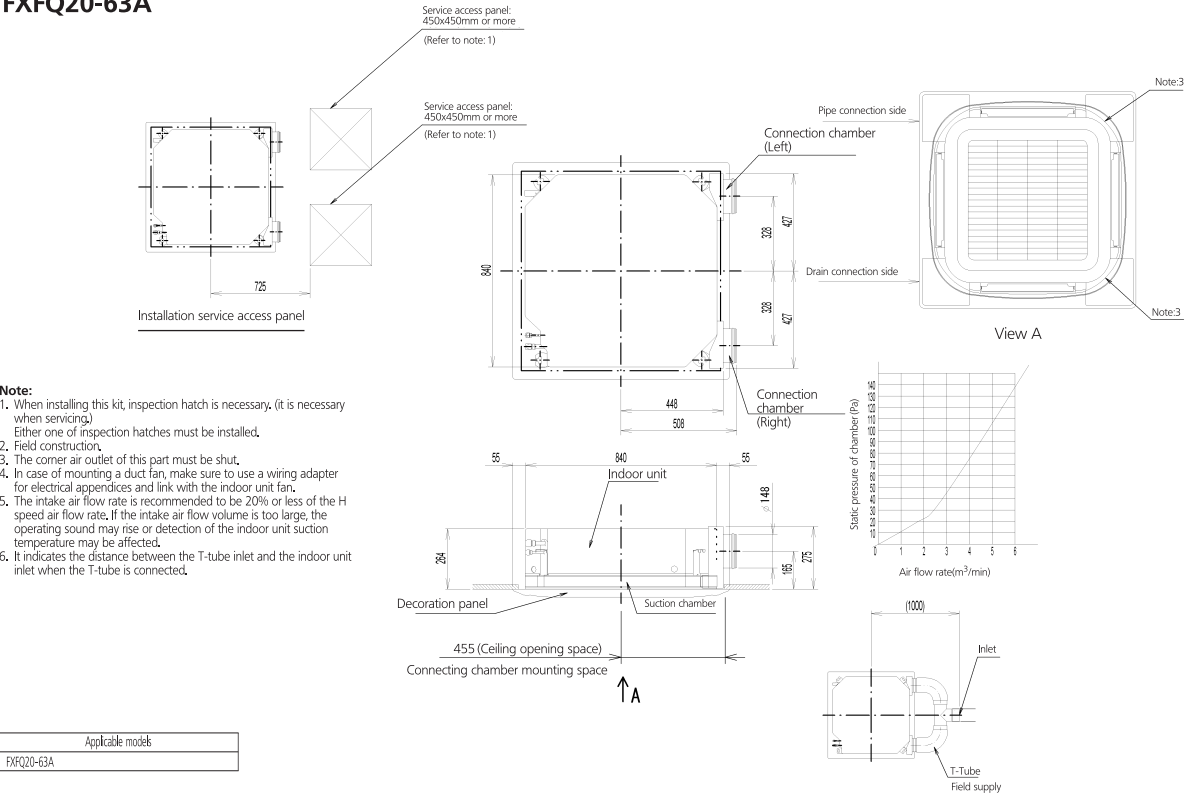
	Model
256	FCQG100-140FVEB, FXFQ80-100AVEB
298	FCQHG71-140FVEB, FXFQ125AVEB

3D077130E

7 Dimensional drawings

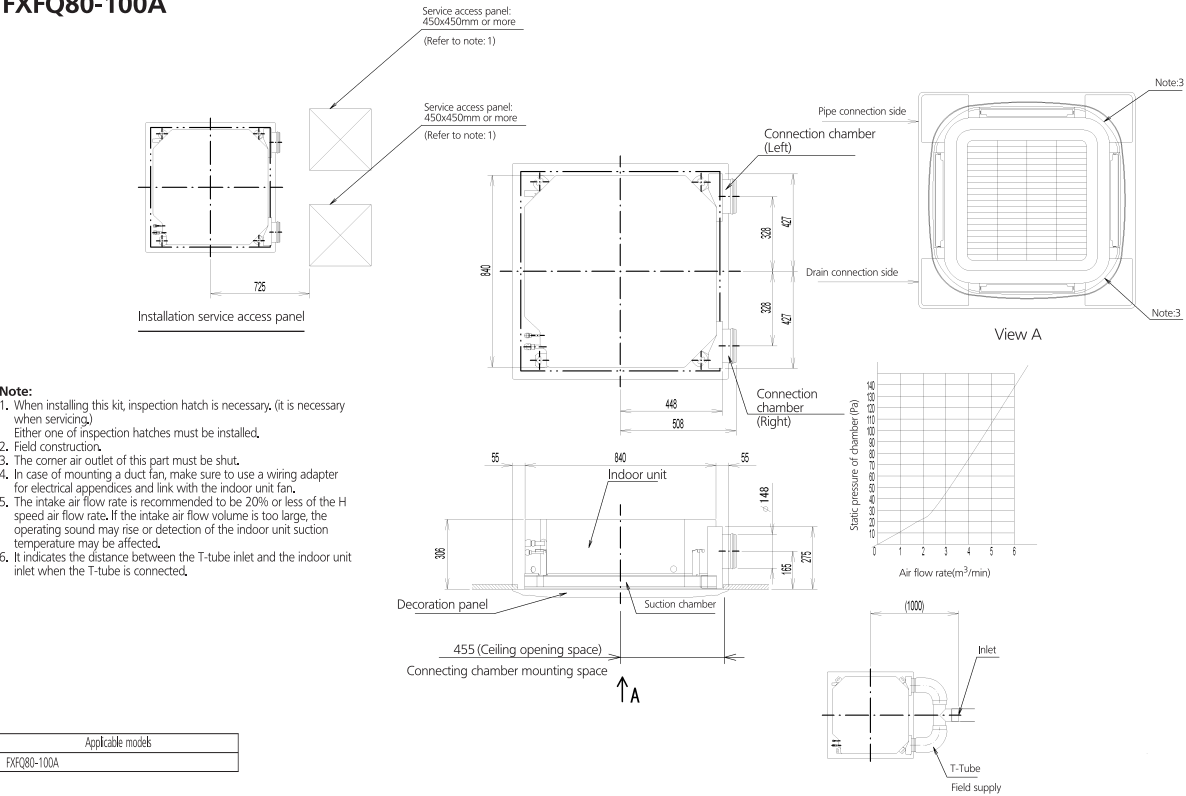
7 - 2 Dimensional Drawings with Fresh Air Intake

FXFQ20-63A



3D082217

FXFQ80-100A



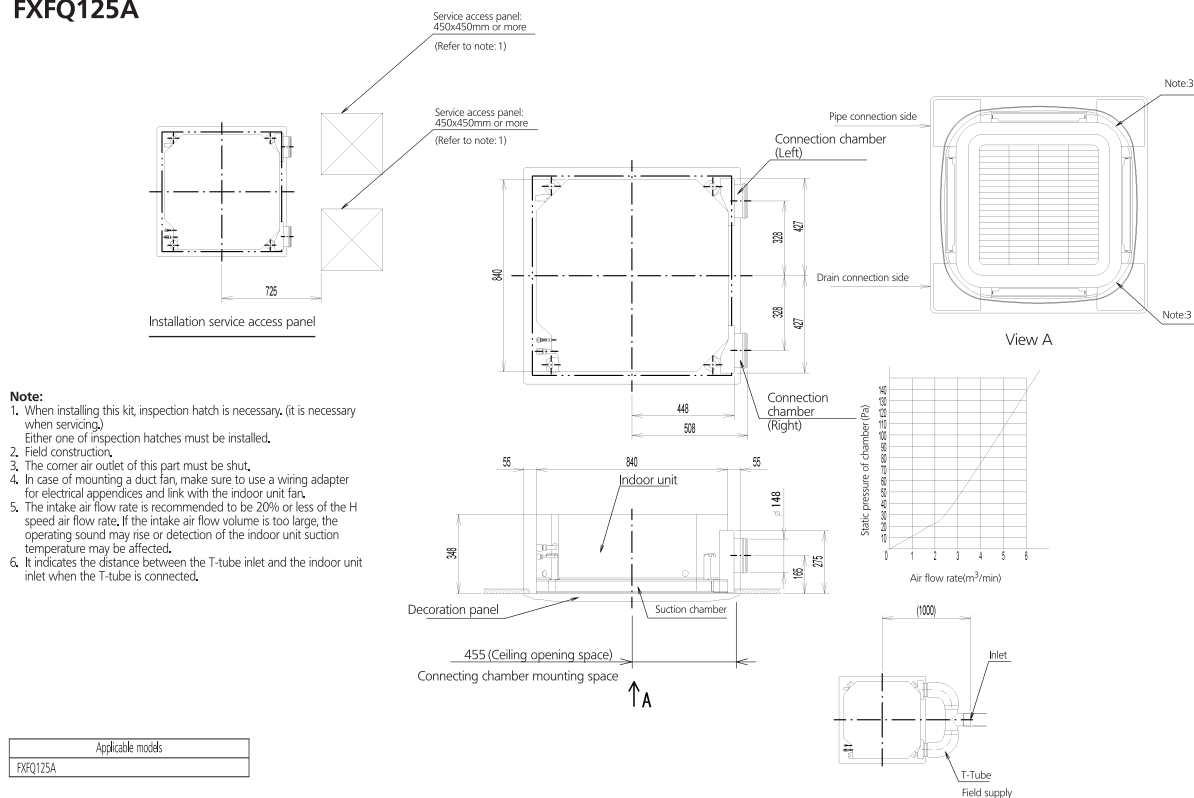
3D082218

7 Dimensional drawings

7 - 2 Dimensional Drawings with Fresh Air Intake

7

FXFQ125A

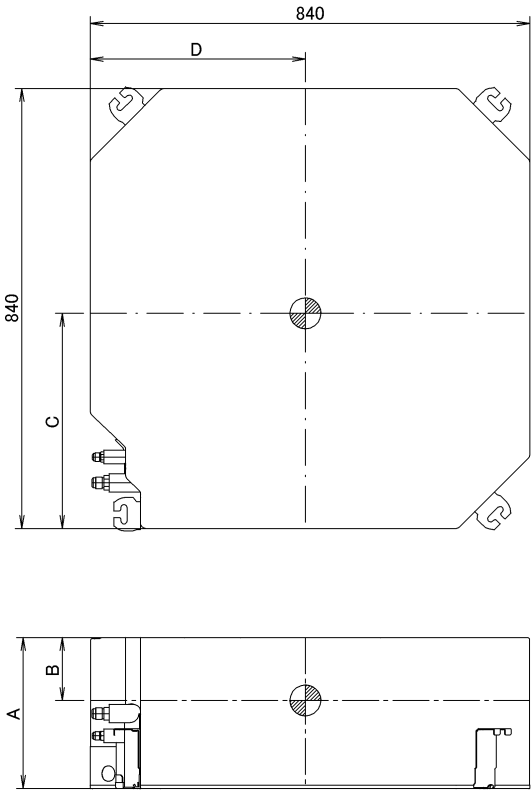


3D082220

8 Centre of gravity

8 - 1 Centre of Gravity

FXFQ-A



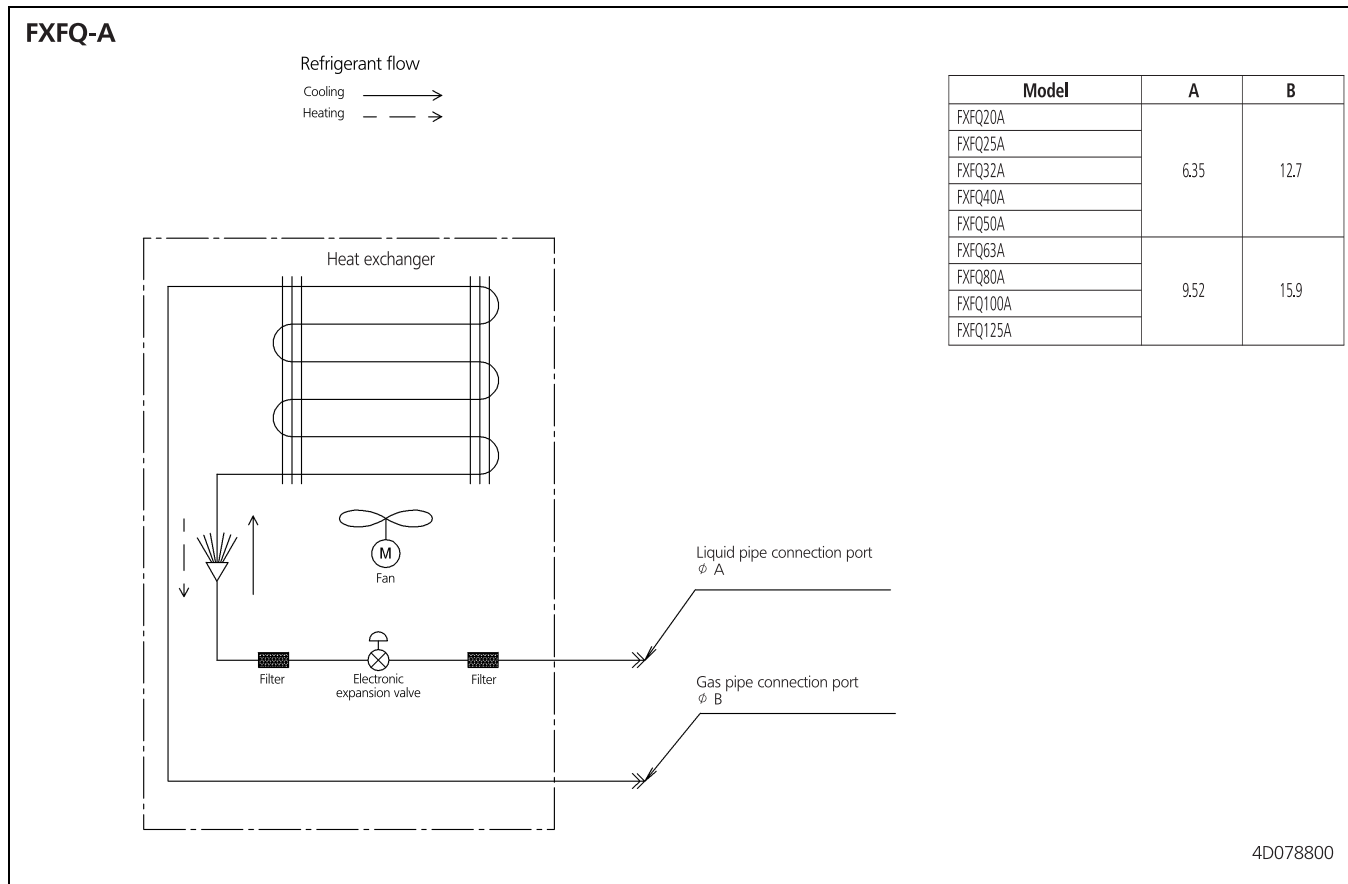
Model	A	B	C	D
FXFQ20~63A	204	60	409	358
FXFQ80~100A	246	90	411	411
FXFQ125A	288	120	420	420

4D077032A

9 Piping diagrams

9 - 1 Piping Diagrams

9

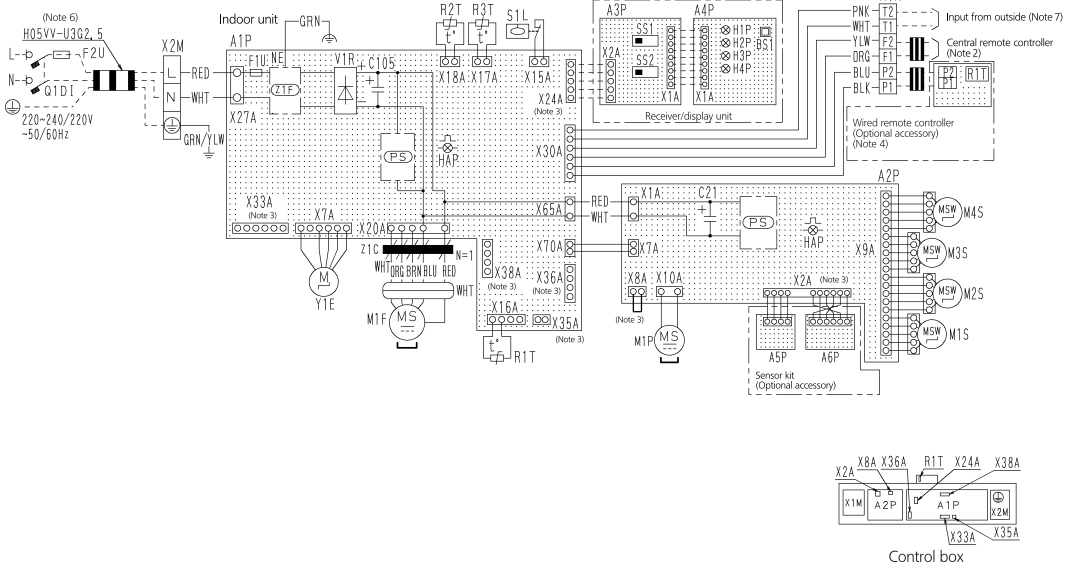


10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXFQ-A

Indoor unit	
A1P	Printed circuit board
A2P	Printed circuit board
C21	Capacitor
C105	Capacitor
F1U	Fuse (T3.15A, 250V)
F2U	Field fuse
HAP	Light emitting diode (service monitor green)
M1F	Motor (indoor fan)
M1P	Motor (drain pump)
M1S-M4S	Motor (swing flap)
Q1D1	Earth leak detector
R1T	Thermistor (air)
R2T-R3T	Thermistor (coil)
S1L	Float switch
V1R	Diode bridge
X1M	Terminal block
X2M	Terminal block
Y1E	Electronic expansion valve
Z1C	Ferrite core (Noise filter)
Z1F	Noise filter
PS	Power supply circuit
Wired remote controller	
R1T	Thermistor (air)
Receiver/display unit (Attached to infrared remote controller)	
A3P	Printed circuit board
A4P	Printed circuit board
BS1	Push button (on/off)
H1P	Light emitting diode (on-red)
H2P	Light emitting diode (timer-green)
H3P	Light emitting diode (filter sign-red)
H4P	Light emitting diode (defrost-orange)
SS1	Selector switch (main/sub)
SS2	Selector switch (infrared address set)
Connector for optional parts	
X2A	Connector (Sensor kit)
X8A	Connector (Auto clean panel)
X24A	Connector (Infrared remote controller)
X33A	Connector (adaptor for wiring)
X35A	Connector (group control adapter)
X36A	Connector (Auto clean panel)
X38A	Connector (Multi tenant)



Notes

- □ □ : Terminal block, □ □ □ □ : Connector, ■ ■ ■ : Field wiring
- In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
- X2A, X8A, X33A, X35A, X36A, X38A are connected when the optional accessories are being used. In case of using an auto clean panel, see the wiring diagram of it.
- In case of main/sub overcharge, see the installation manual attached to remote controller.
- Symbols show as follows: RED:Red BLK:Black WHT:White YLW:Yellow
GRN:Green ORG:Orange BRN:Brown PNK:Pink BLU:Blue.
- Shows only in case of protected pipes, use HO7RN-F in case of no protection.
- When connecting the input wires from outside, forced OFF or ON/OFF control operation can be selected by the remote controller. See installation manual for more details.

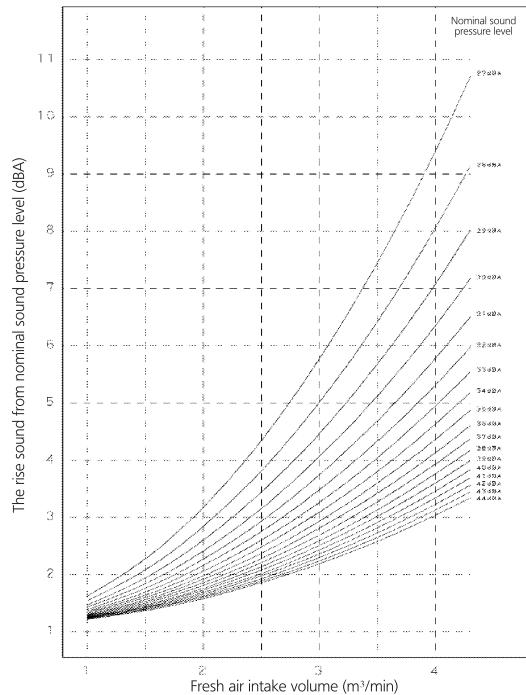
3D077519B

11 Sound data

11 - 1 Sound Pressure Spectrum

FXFQ-A

The rise of operating sound with fresh air intake kit



The maximum intake air flow volume is following table.
If the intake air flow volume is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.

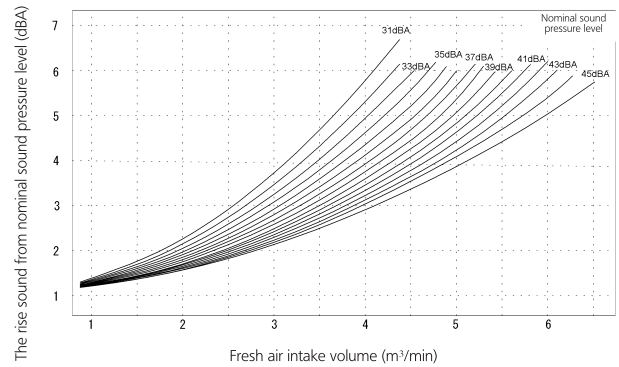
FXFQ-A	20	25	32	40	50	63	80	100	125
Max fresh air intake volume (m ³ /min)	2.5	2.5	2.5	2.7	3.1	3.5	4.3	4.3	4.3

4D079706

FXFQ-A

Max fresh air intake volume table

The rise of operating sound with fresh air intake kit



The maximum intake air flow volume is following table.

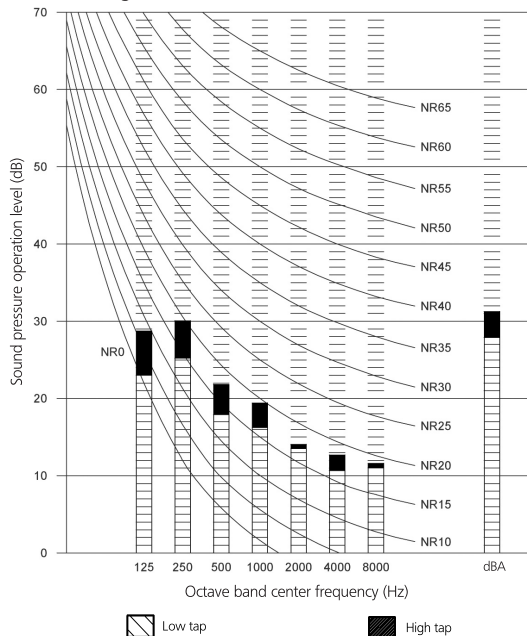
If the intake air flow volume is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.

FXFO-A	20	25	32	40	50	63	80	100	125
Max fresh air intake volume (m ³ /min)	2.5	2.5	2.5	2.7	3.0	3.3	4.5	5.3	6.6

4D082223

FXFQ20-32A

Cooling

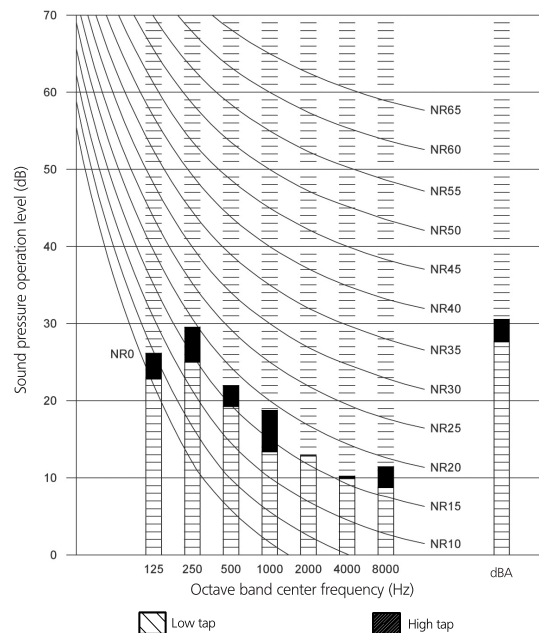


NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC).
- 4 Reference acoustic pressure 0dB = 20μPa
- 5 Curve for FXFQ20AVEB, FXFQ25AVEB, FXFQ32AVEB in cooling/heating mode.
- 6 Sound power level:

High tap
49 dB

Heating

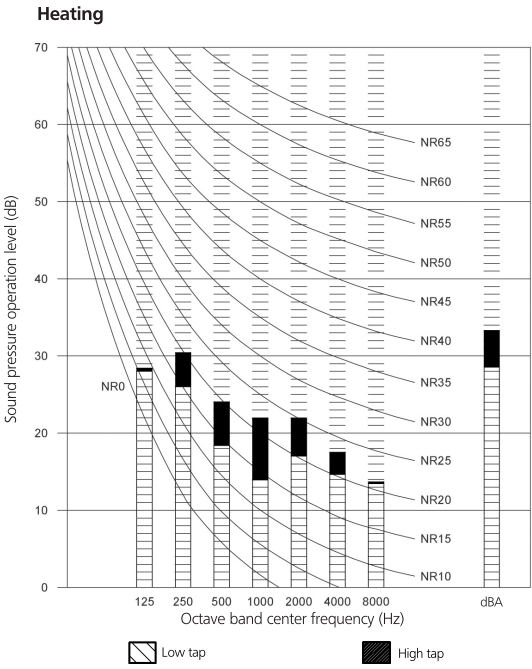
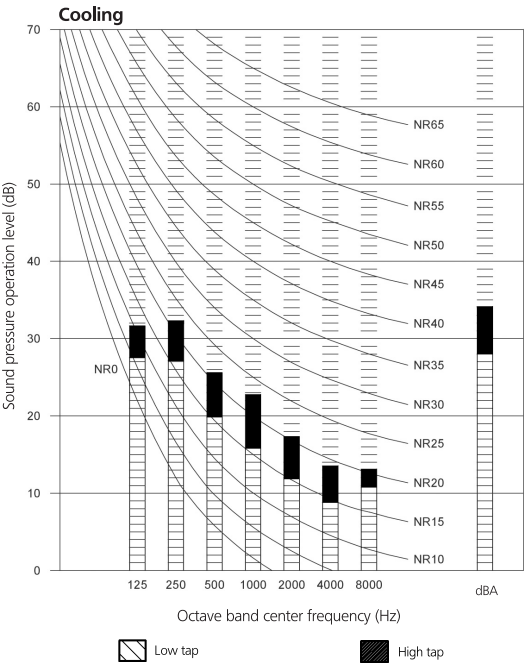


3D079458

11 Sound data

11 - 1 Sound Pressure Spectrum

FXFQ40-50A



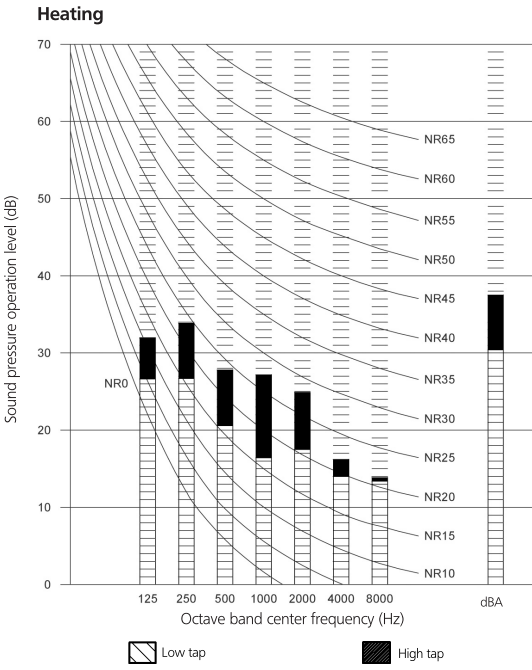
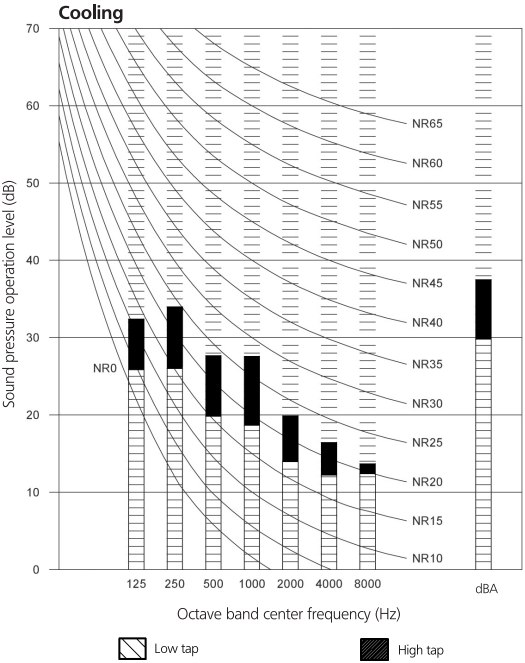
NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC).
- 4 Reference acoustic pressure 0dB = 20μPa
- 5 Curve for FXFQ40AVEB, FXFQ50AVEB in cooling/heating mode.
- 6 Sound power level:

High tap
51 dB

3D079459

FXFQ63A



NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC).
- 4 Reference acoustic pressure 0dB = 20μPa
- 5 Curve for FXFQ63AVEB in cooling/heating mode.
- 6 Sound power level:

High tap
53 dB

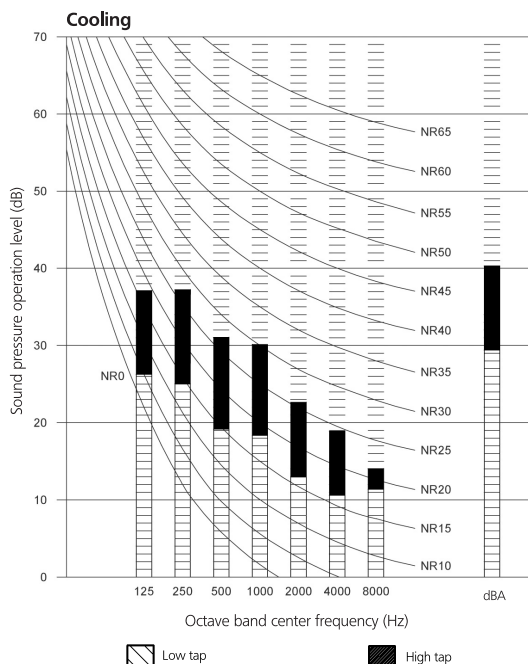
3D079460

11 Sound data

11 - 1 Sound Pressure Spectrum

11

FXFQ80A

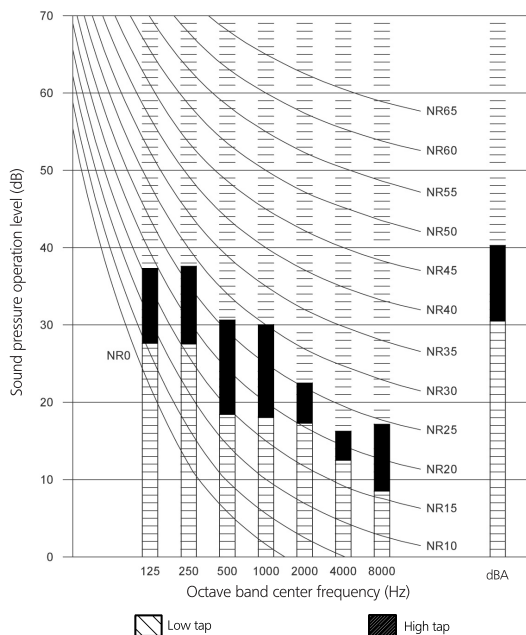


NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC).
- 4 Reference acoustic pressure 0dB = 20μPa
- 5 Curve for FXFQ80AVEB in cooling/heating mode.
- 6 Sound power level:

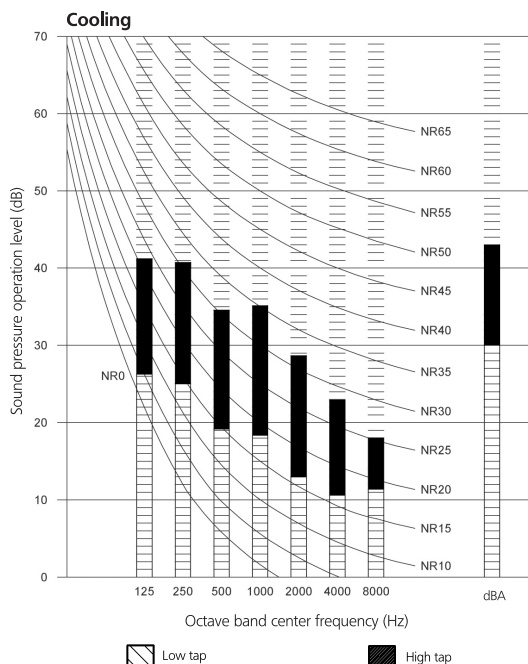
High tap
55 dB

Heating



3D079461

FXFQ100A

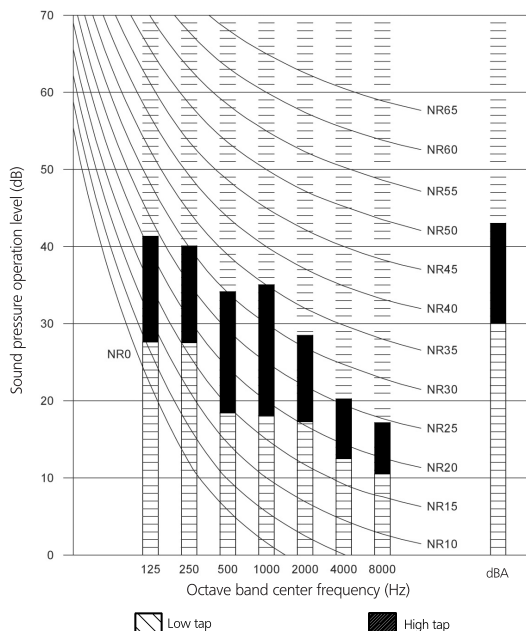


NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC).
- 4 Reference acoustic pressure 0dB = 20μPa
- 5 Curve for FXFQ100AVEB in cooling/heating mode.
- 6 Sound power level:

High tap
60 dB

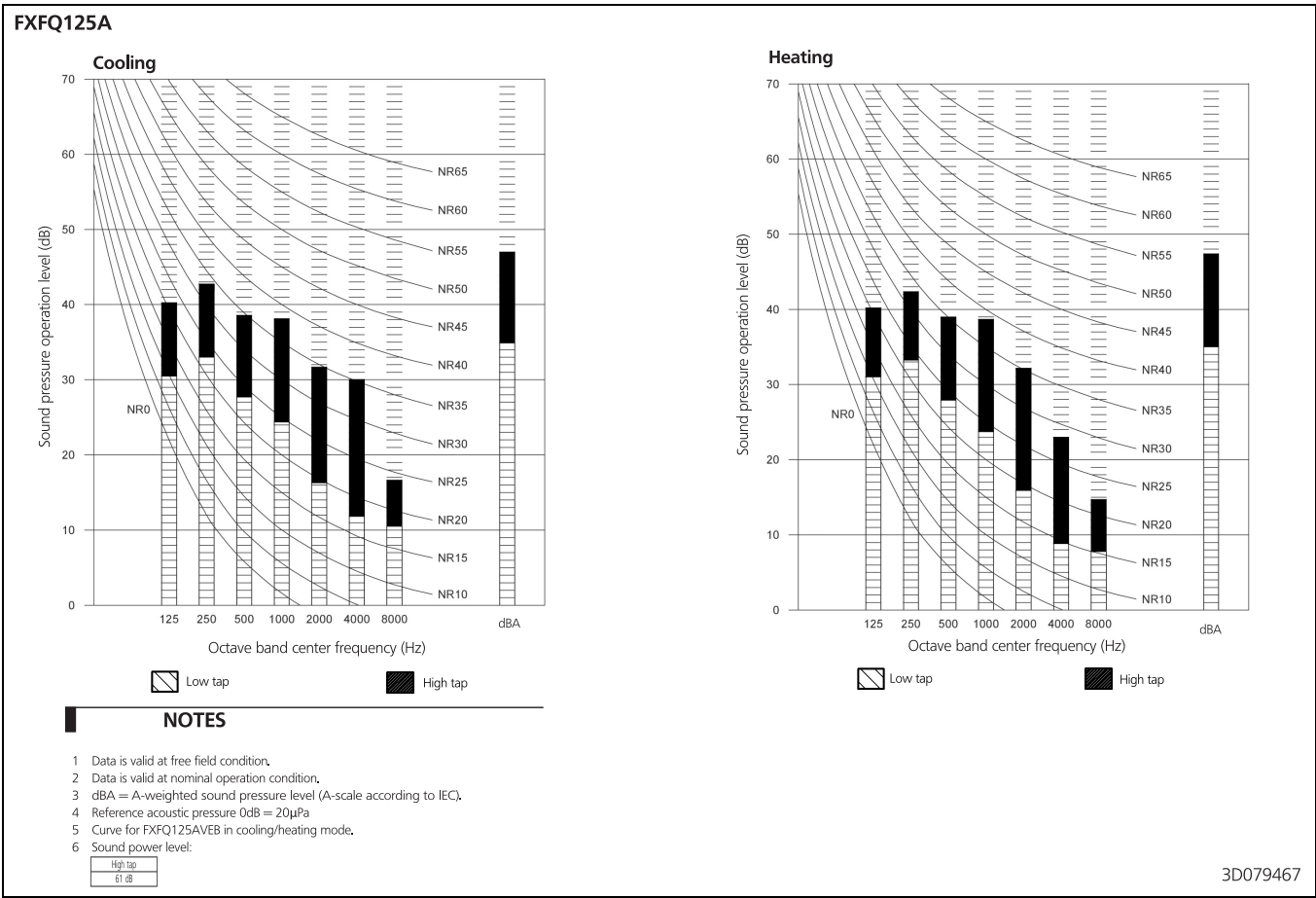
Heating



3D079466

11 Sound data

11 - 1 Sound Pressure Spectrum



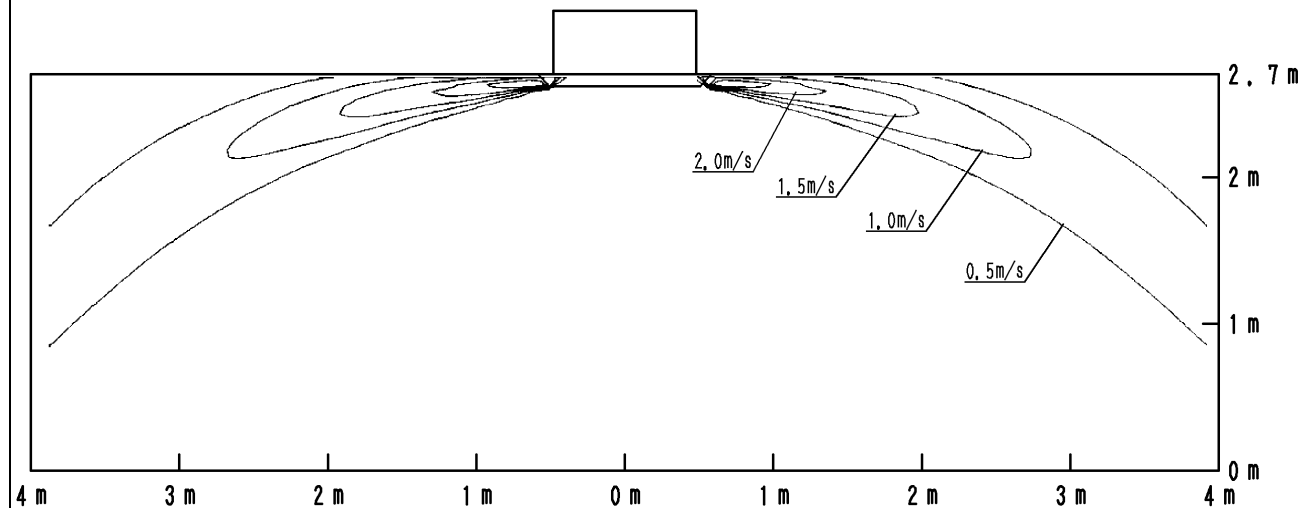
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXFQ20-25A

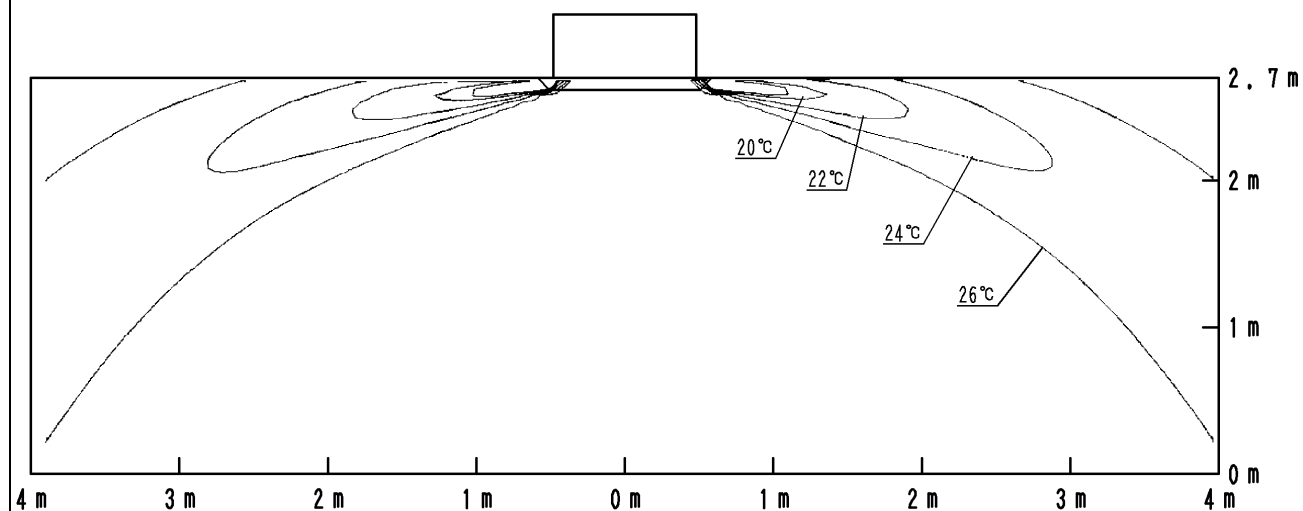
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077053A

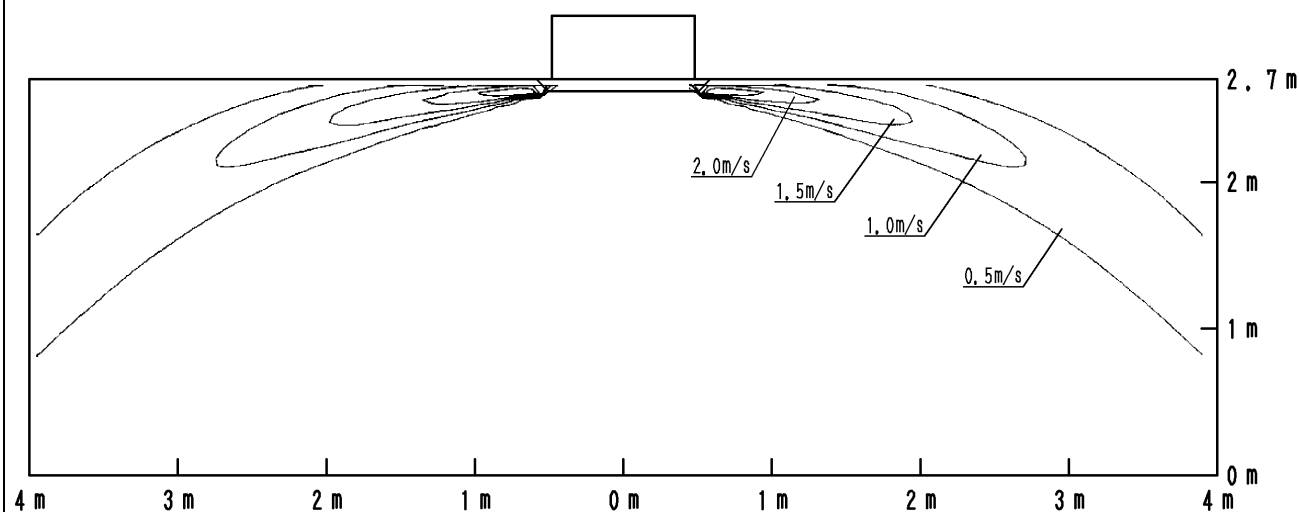
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXFQ32A

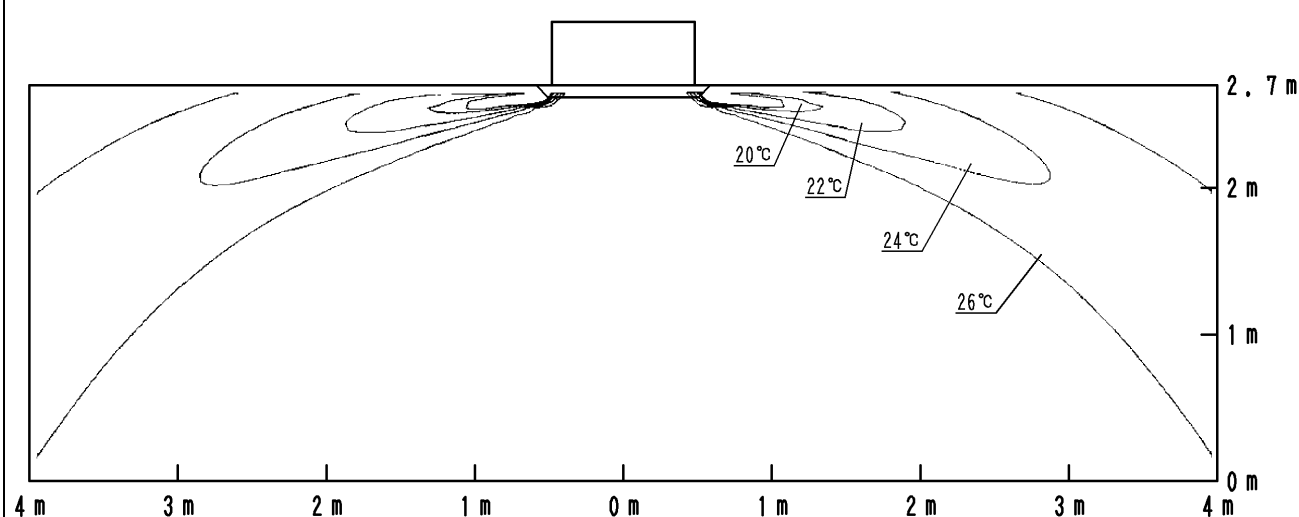
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D078684

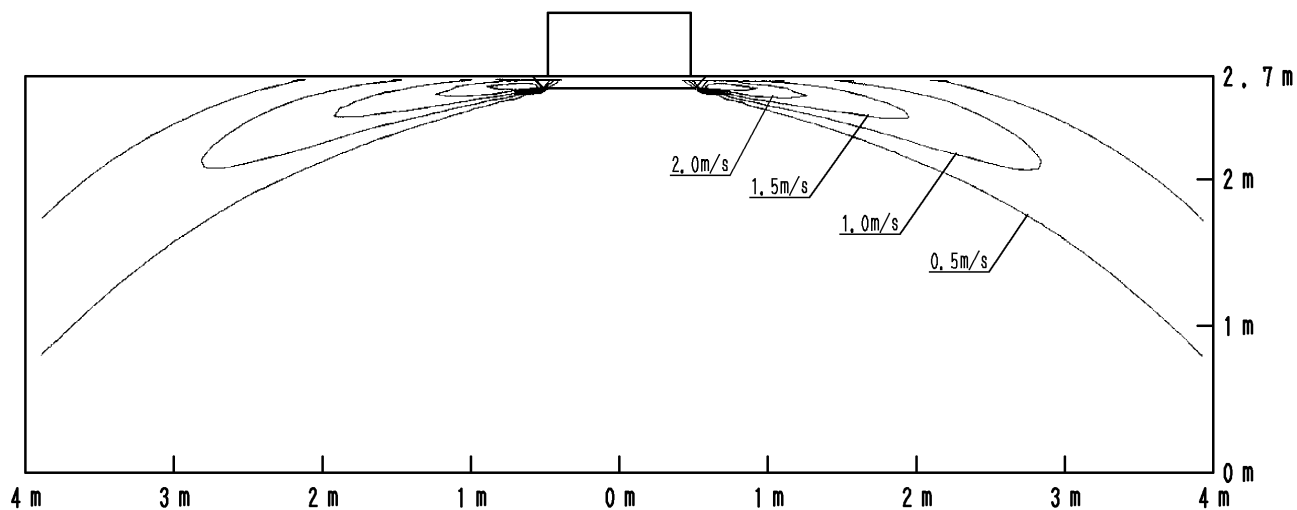
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXFQ40A

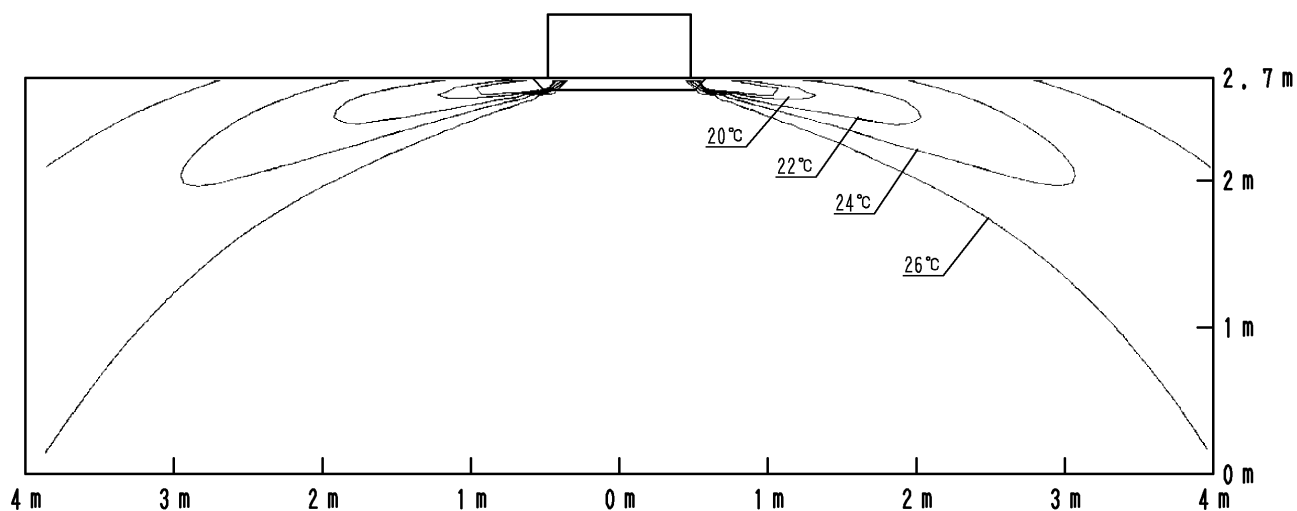
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077055A

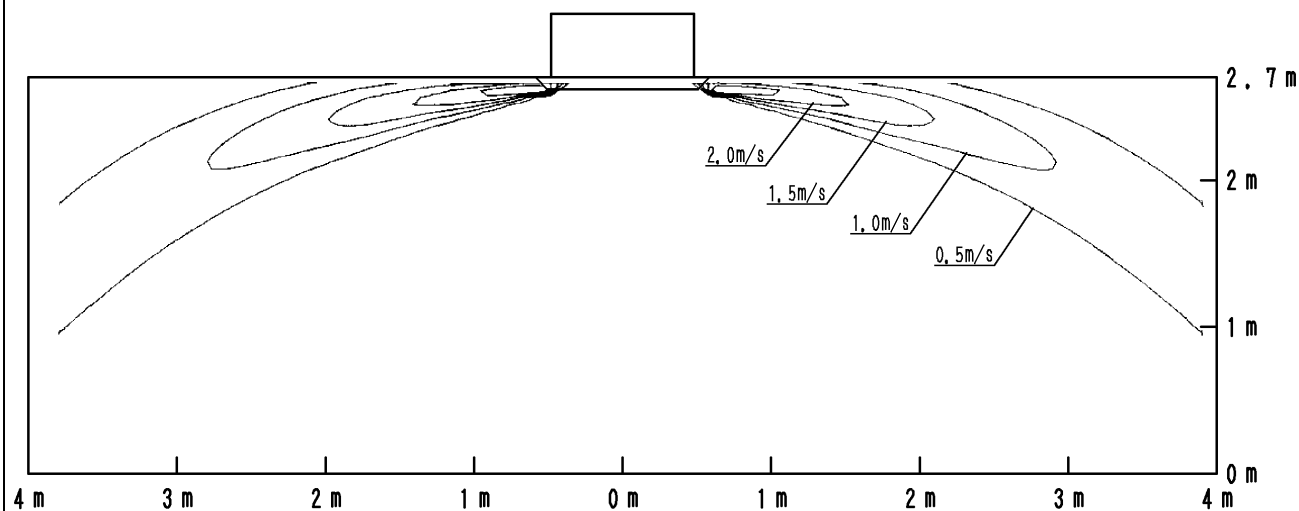
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXFQ50A

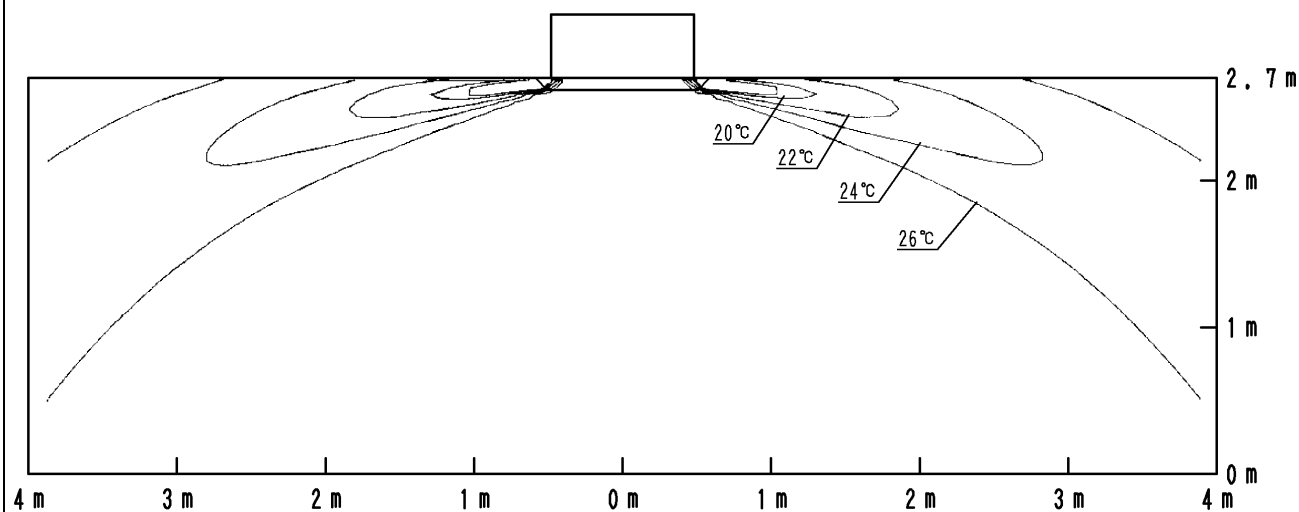
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077056A

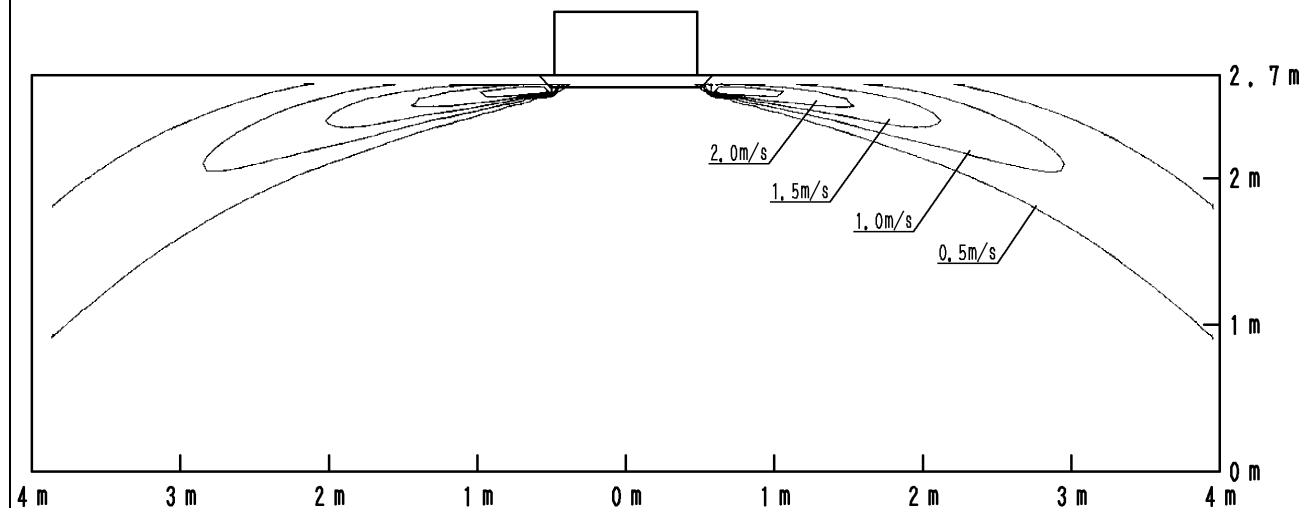
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXFQ63A

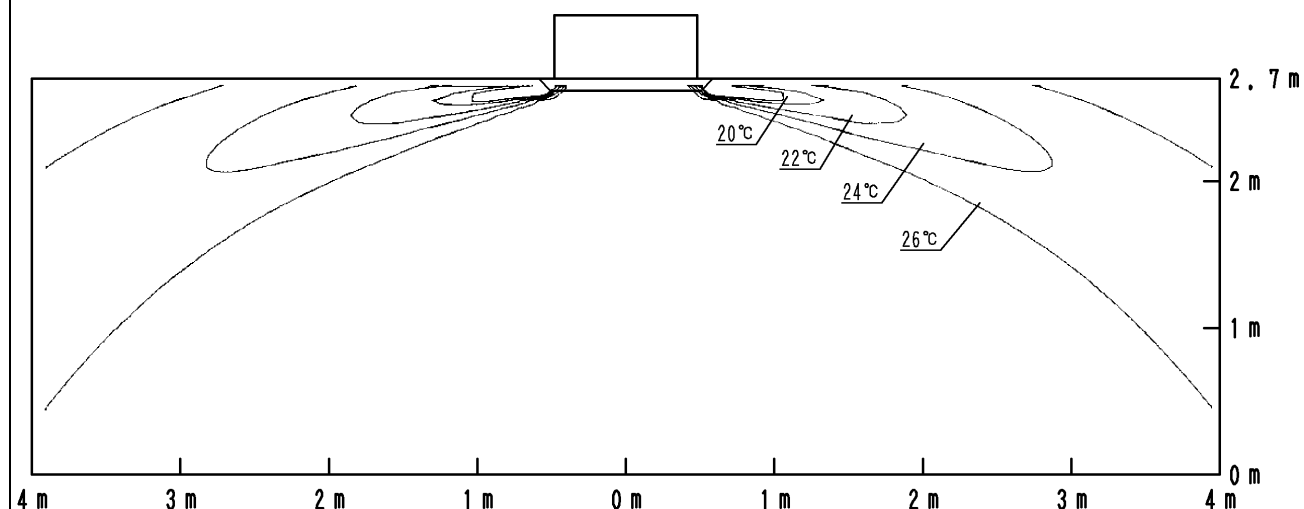
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D078685

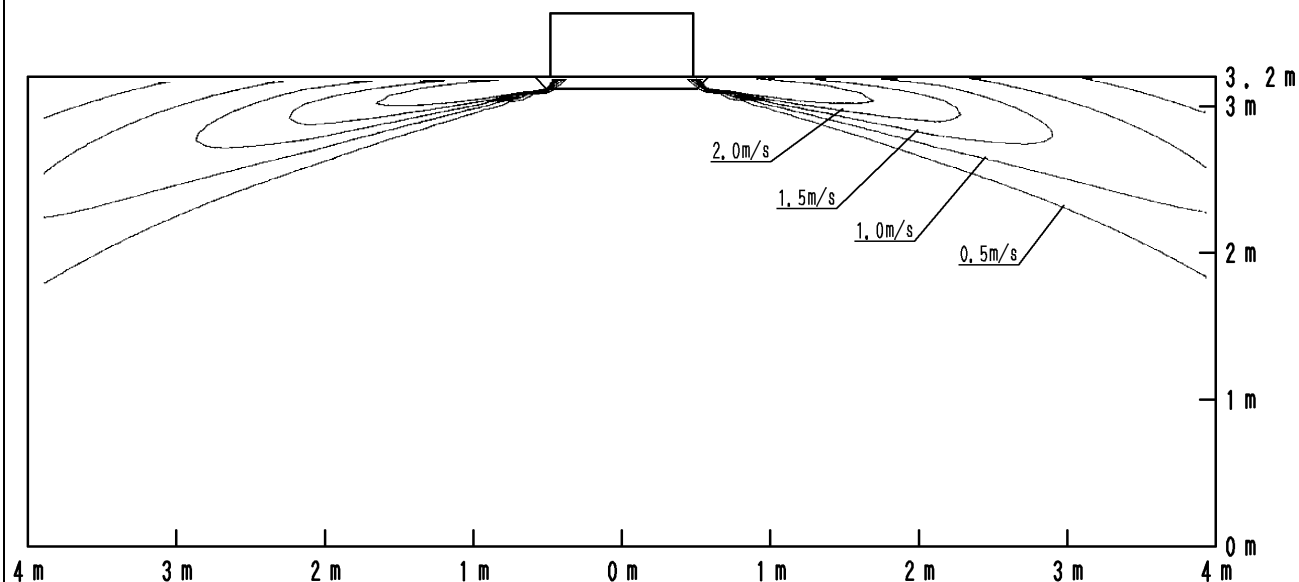
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXFQ80A

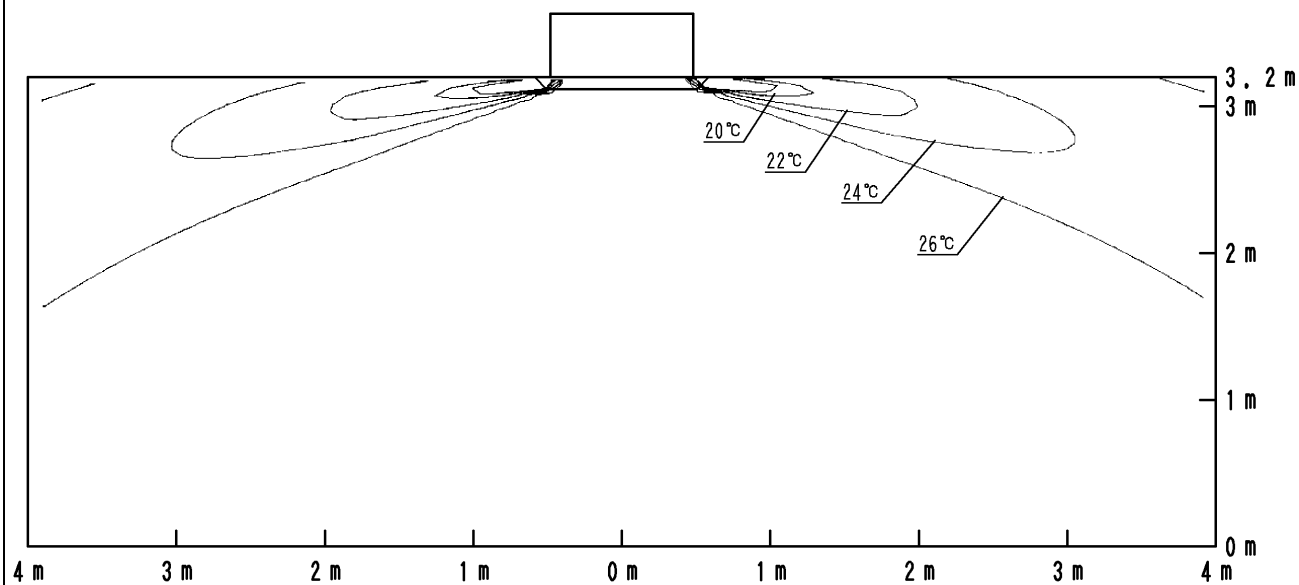
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077057A

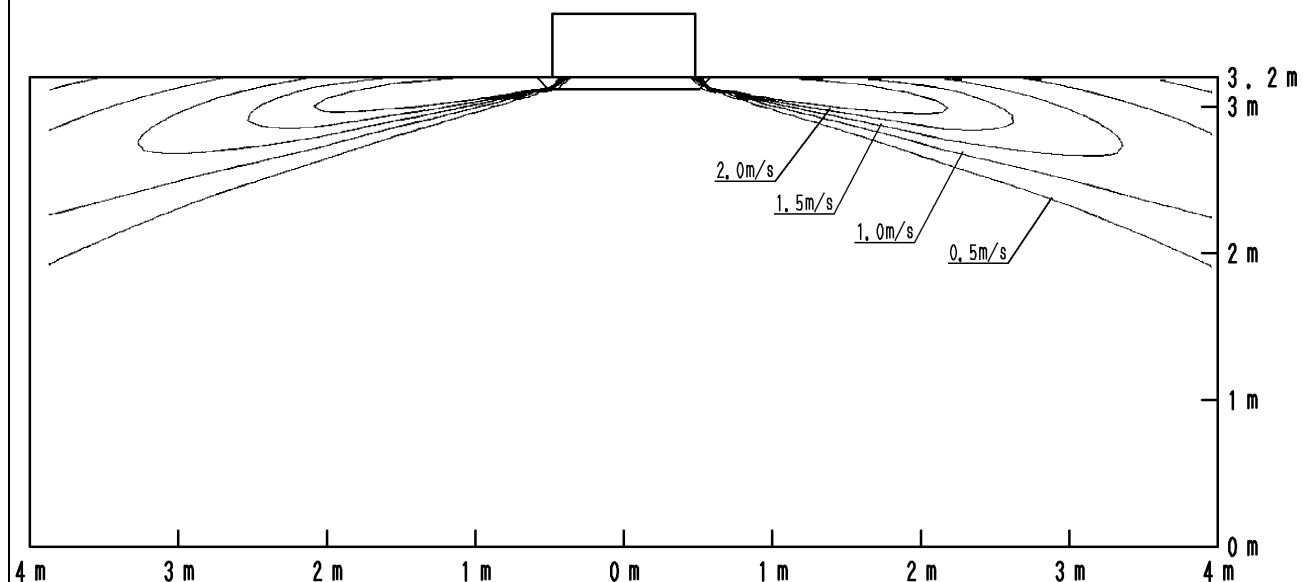
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXFQ100A

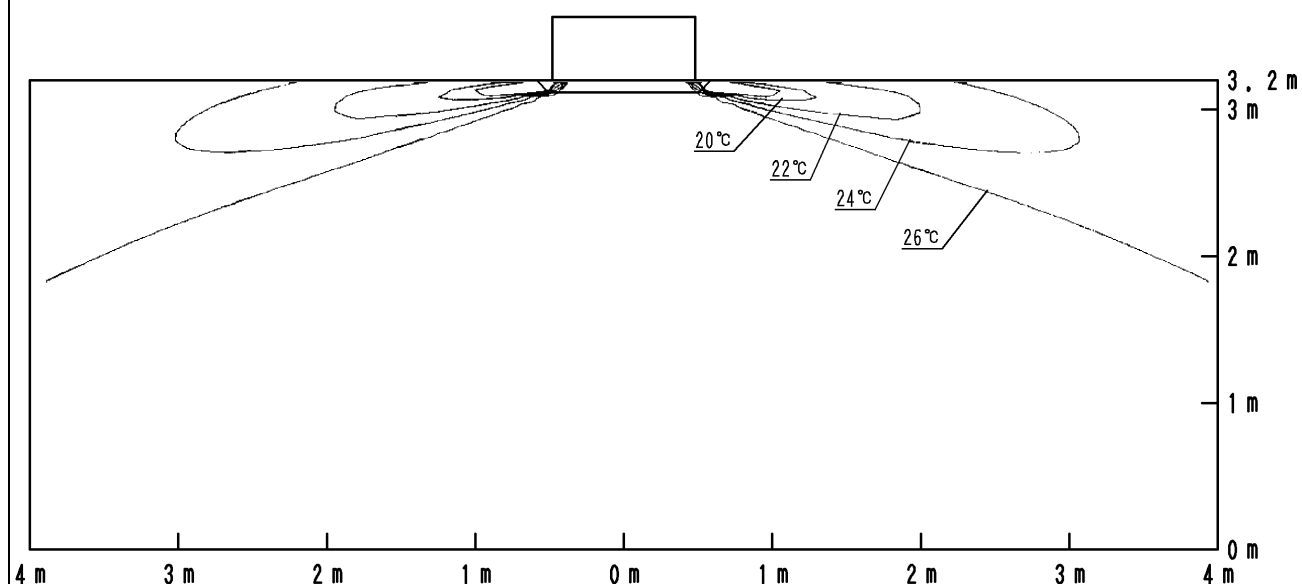
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077058A

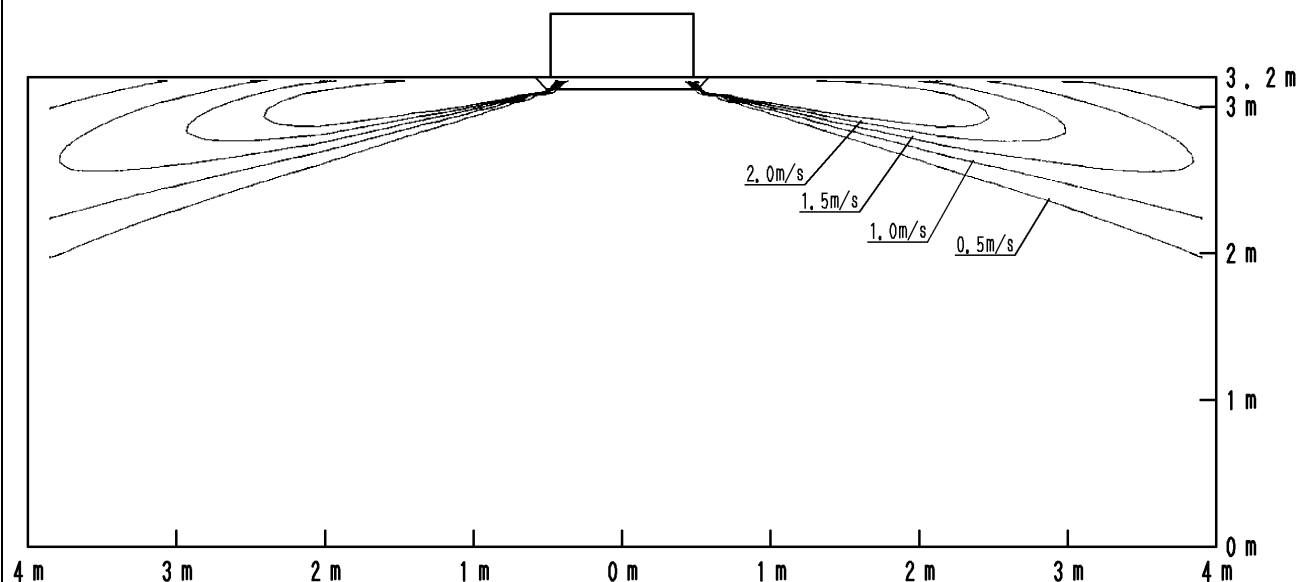
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXFQ125A

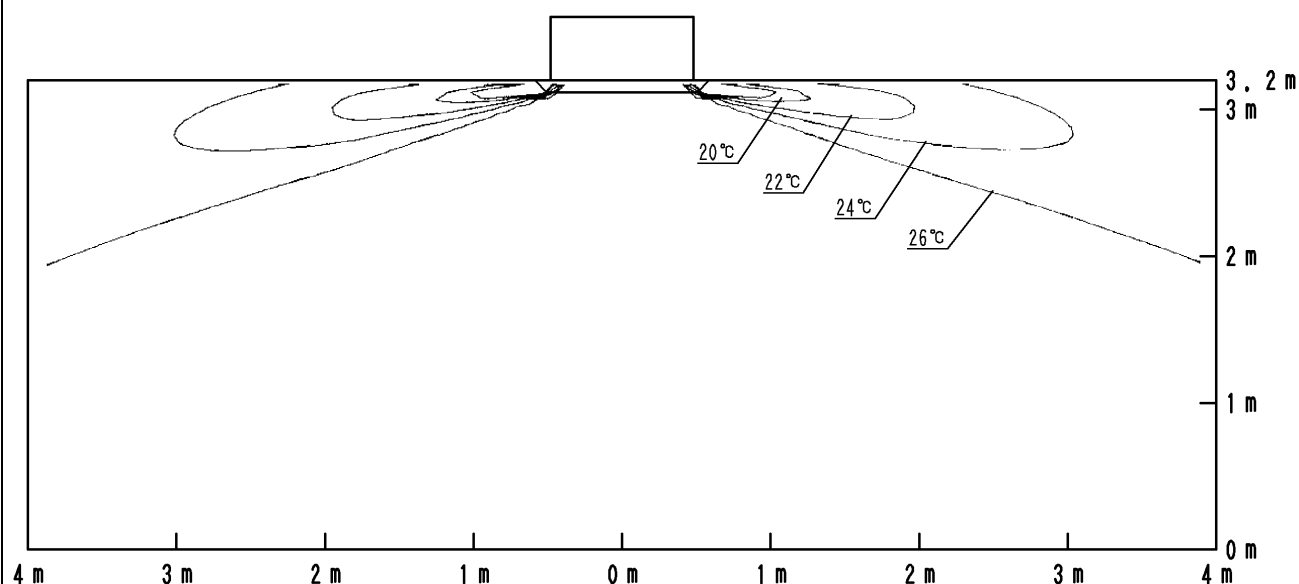
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077063A

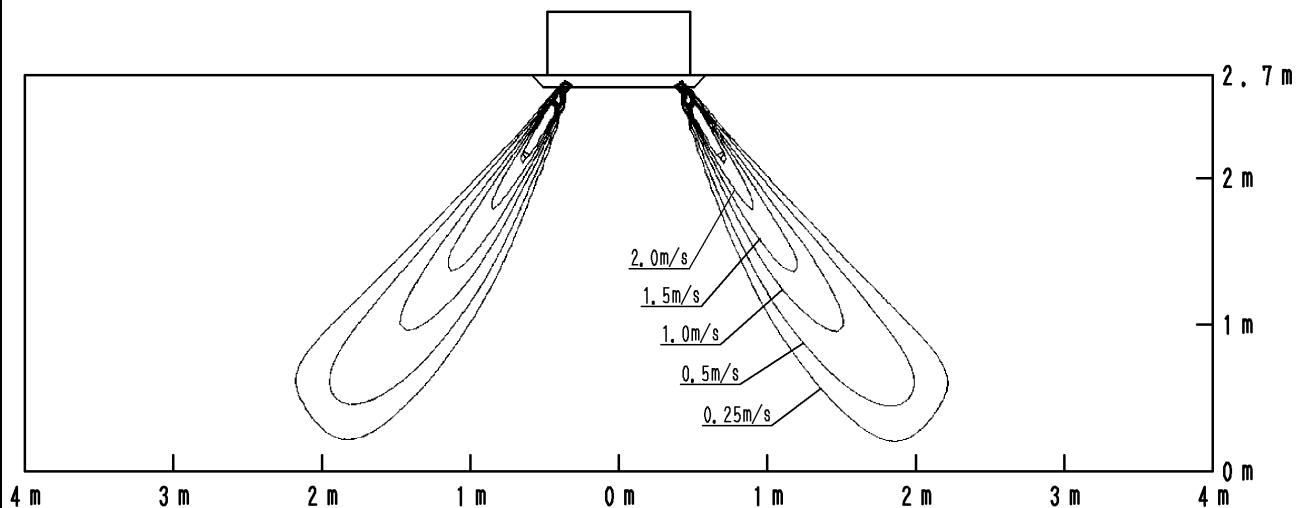
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FXFQ20-25A

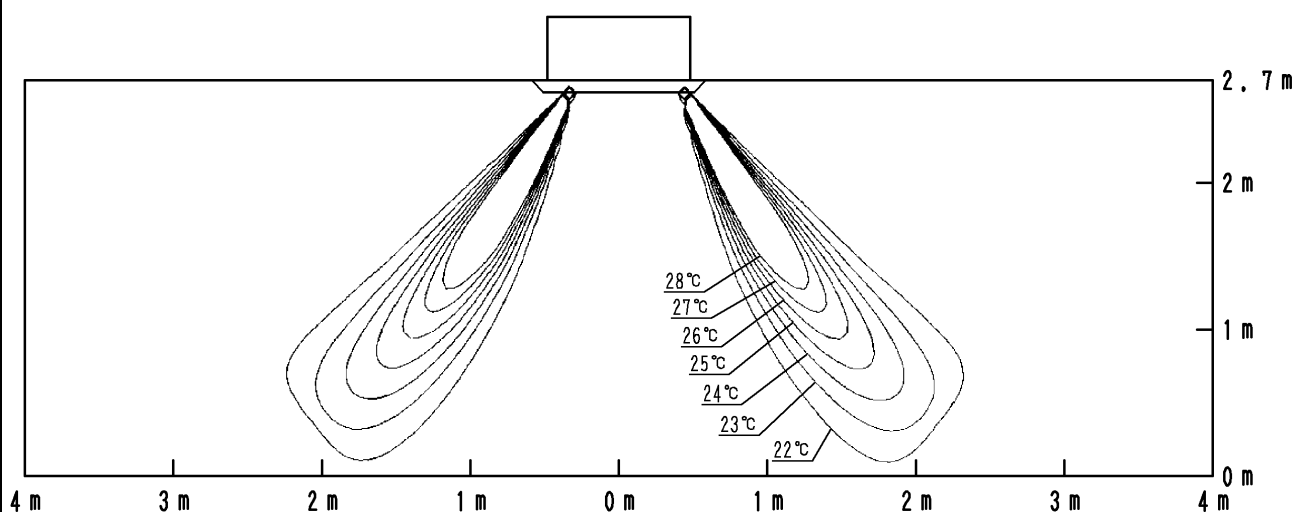
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077042A

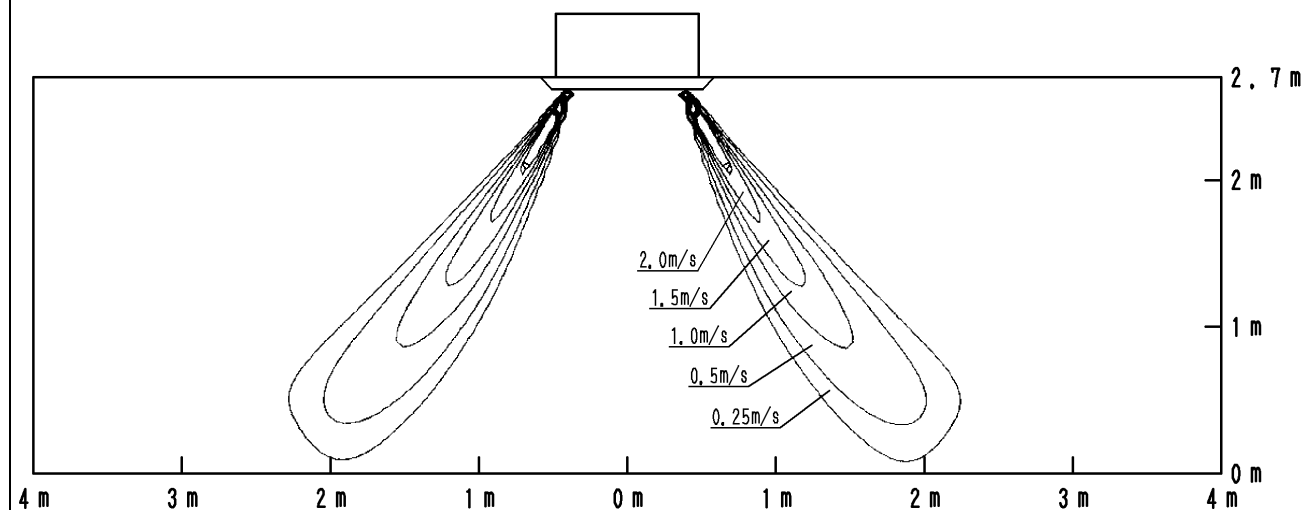
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FXFQ32A

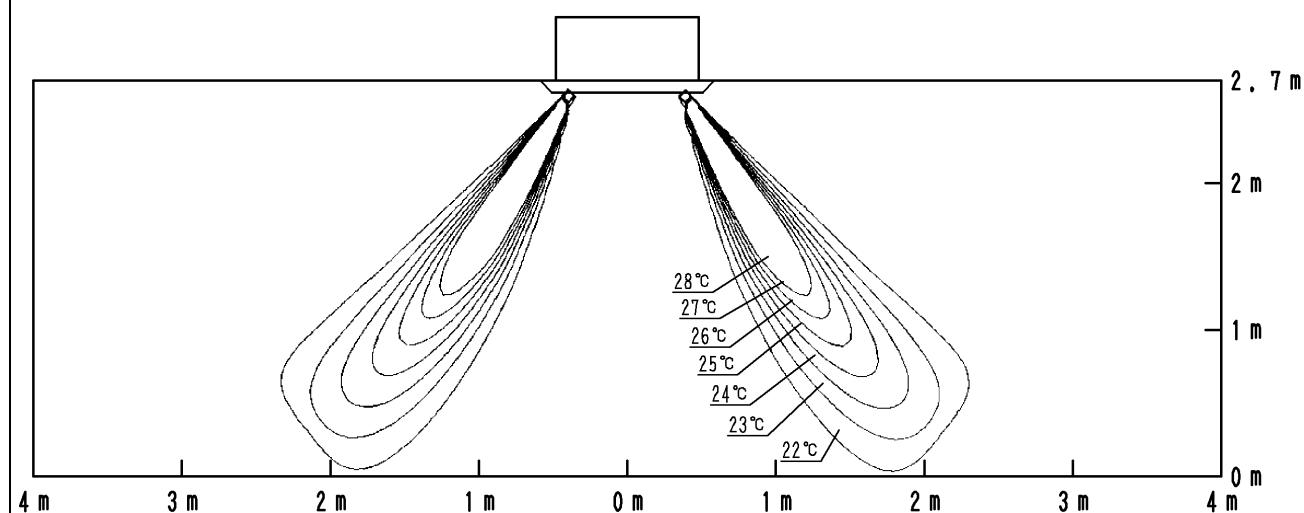
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D078683

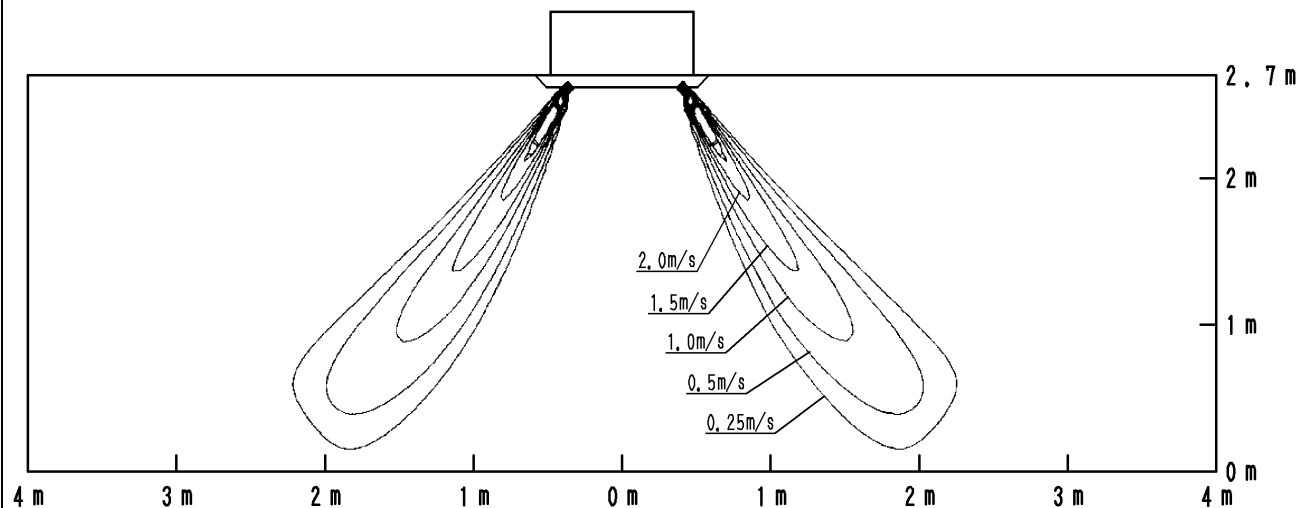
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FXFQ40A

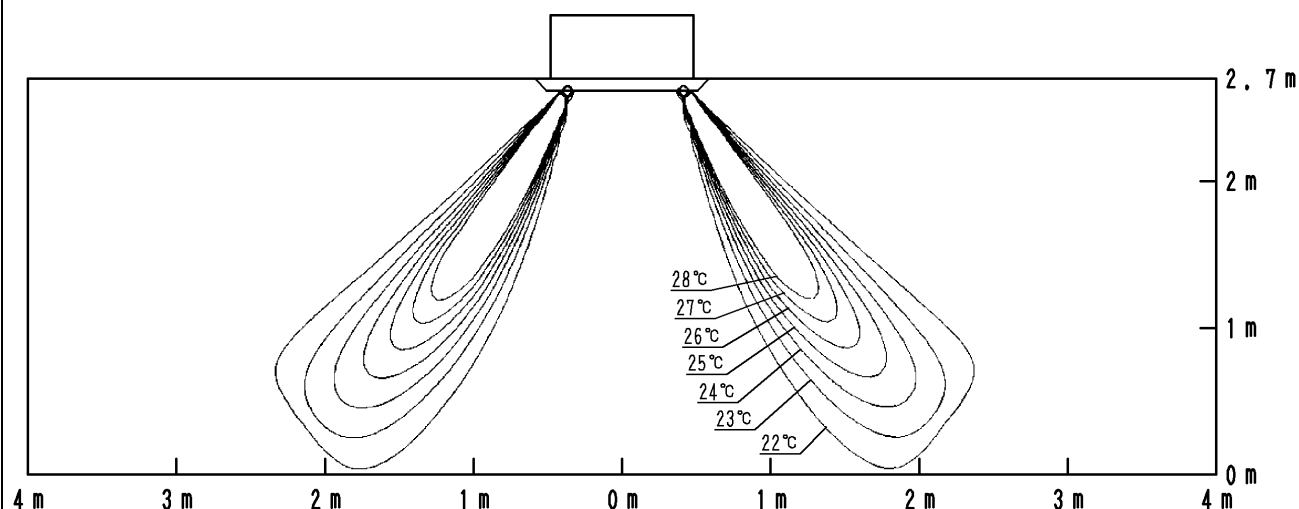
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077044A

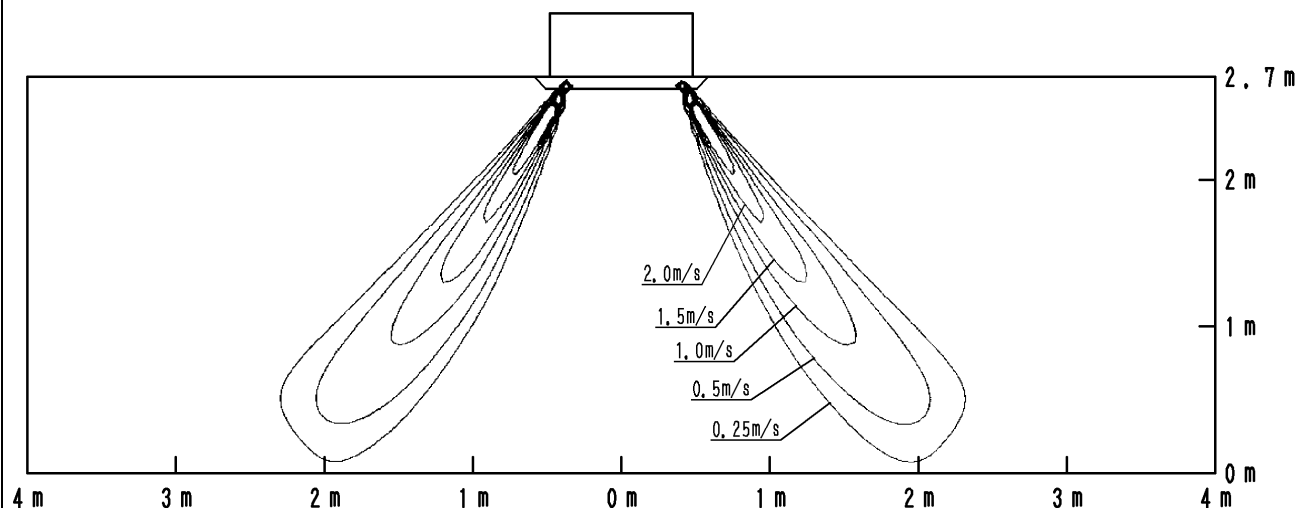
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FXFQ50A

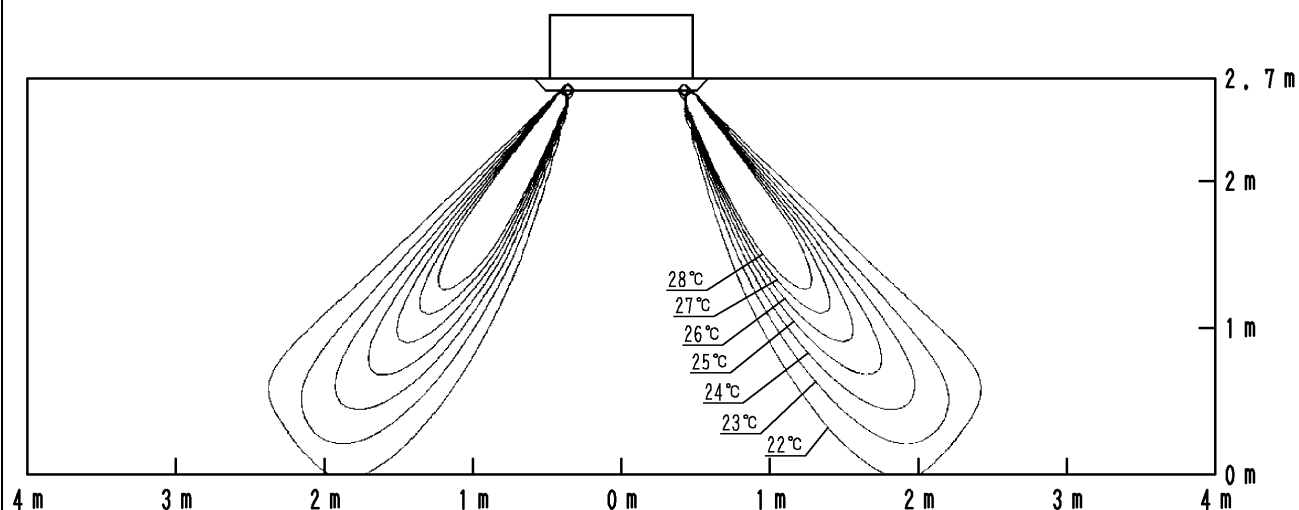
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077045A

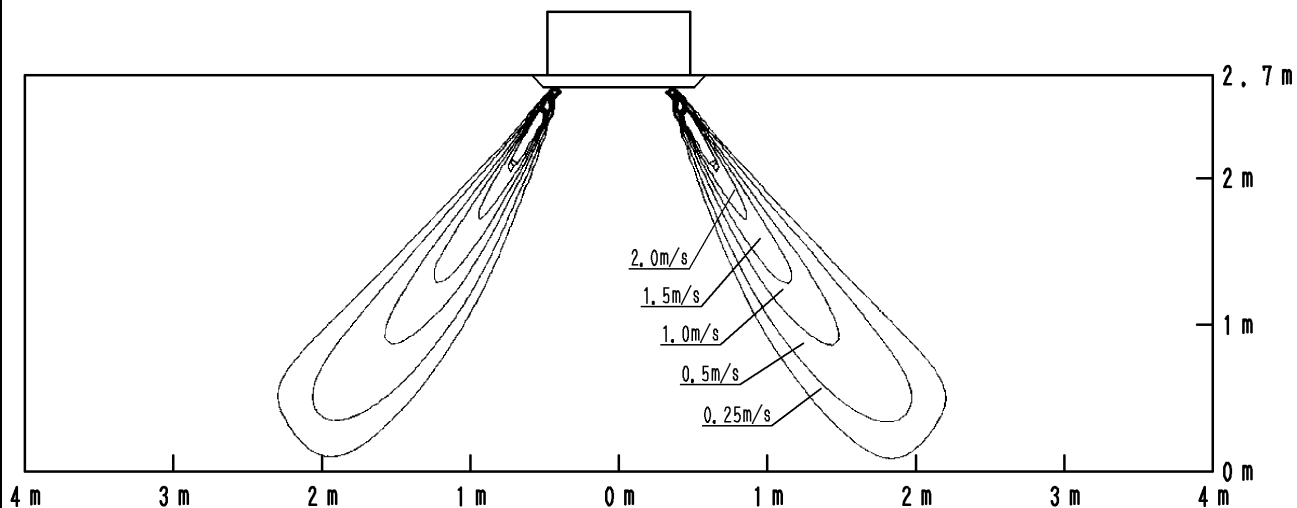
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FXFQ63A

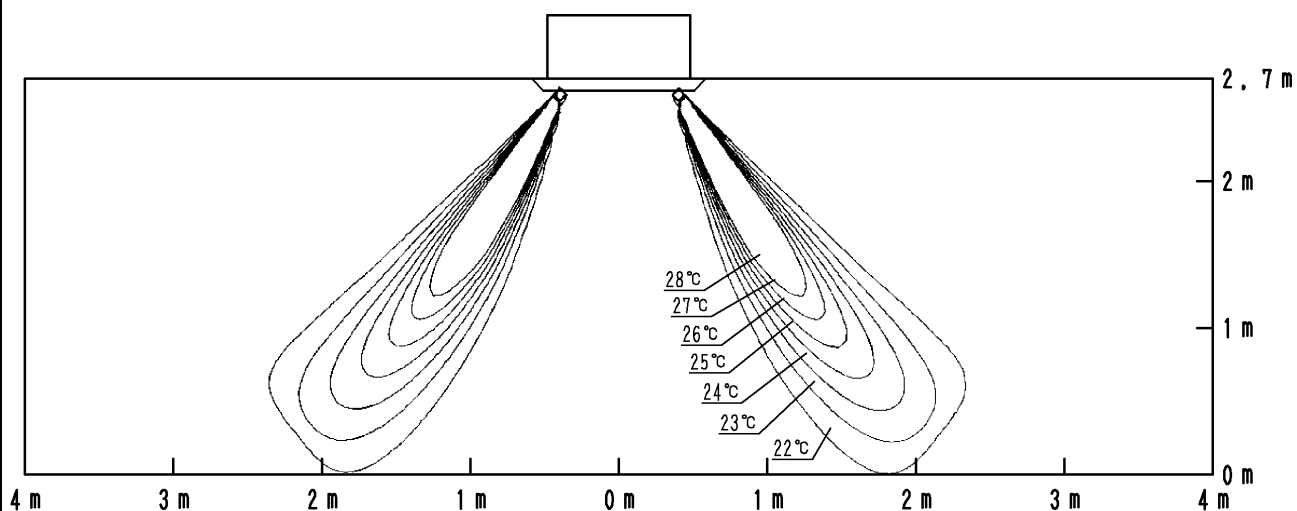
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D078686

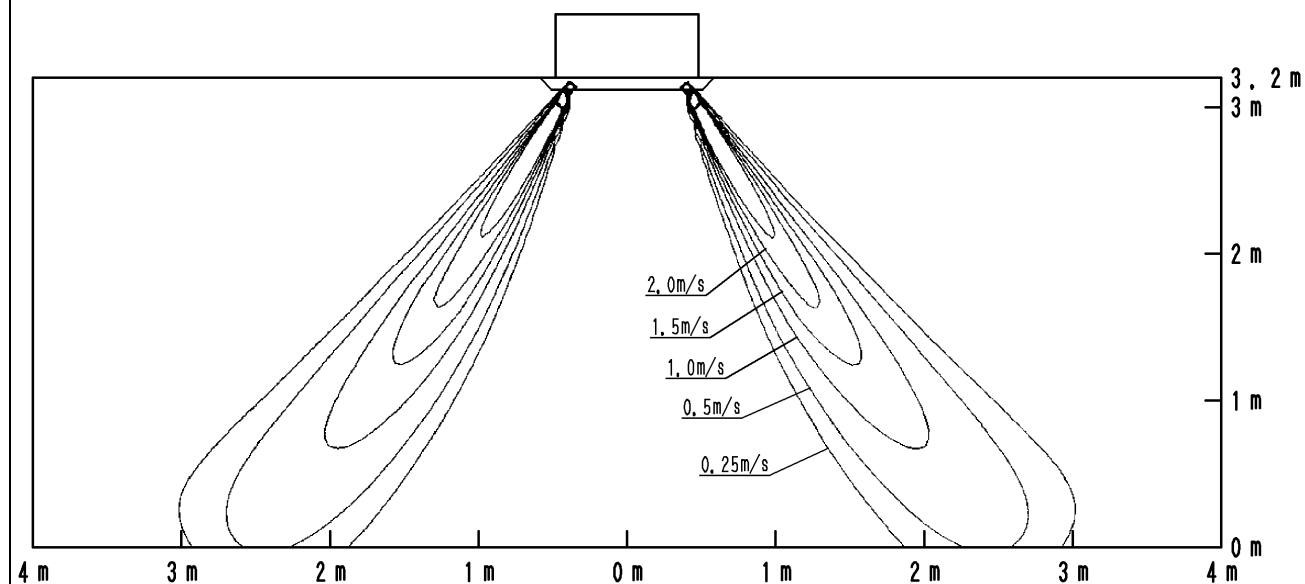
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FXFQ80A

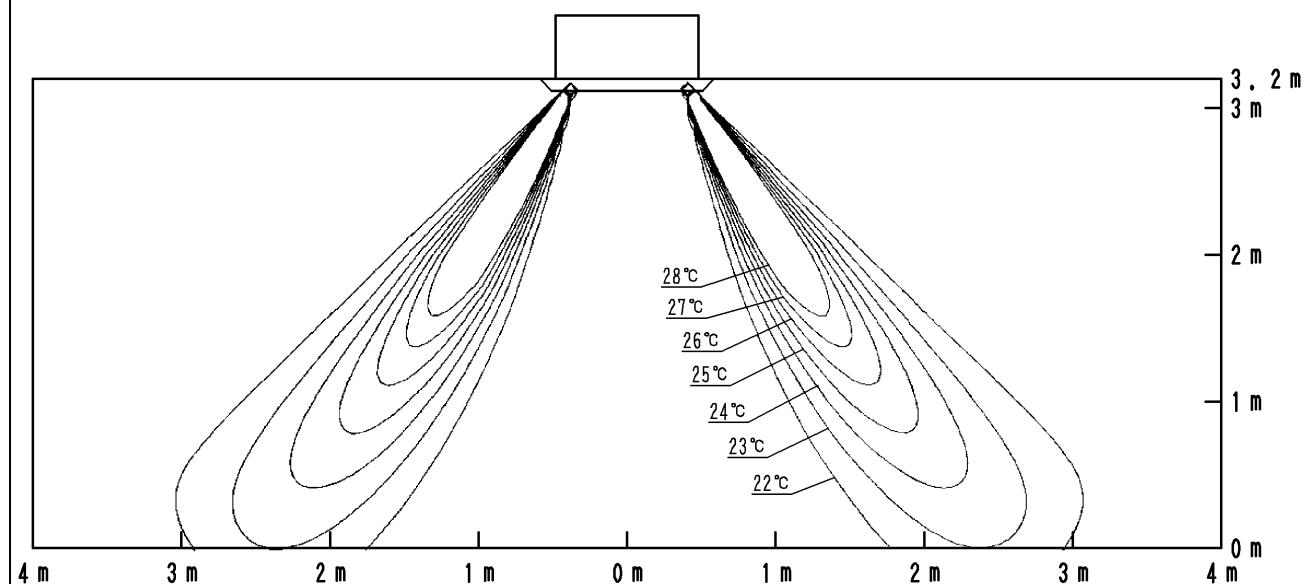
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077046A

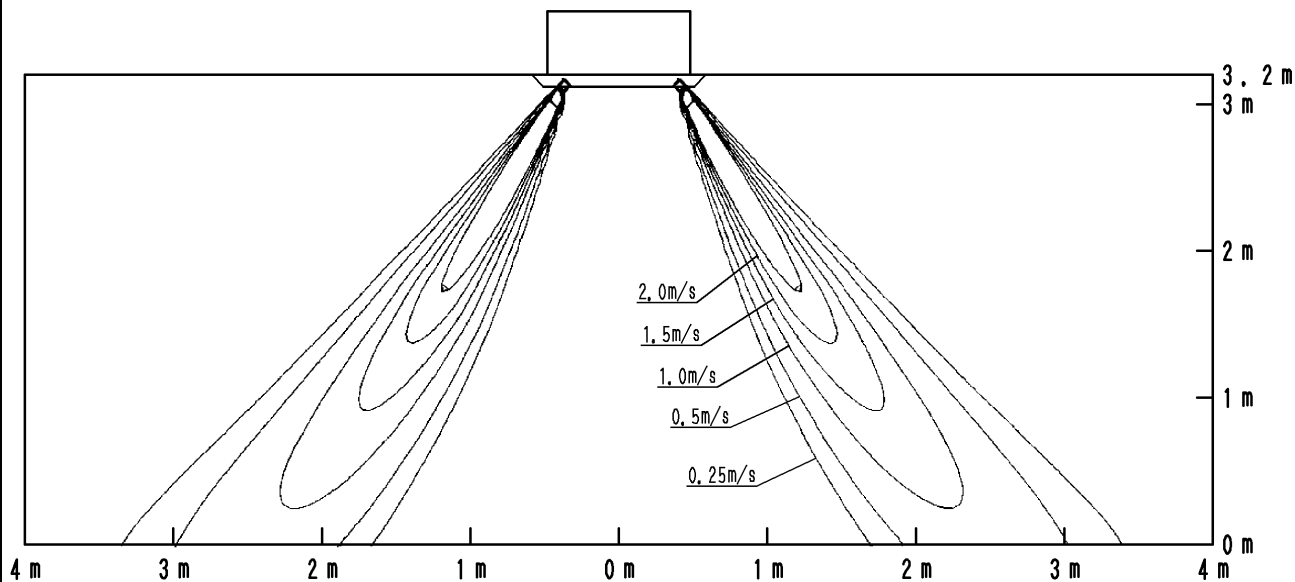
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FXFQ100A

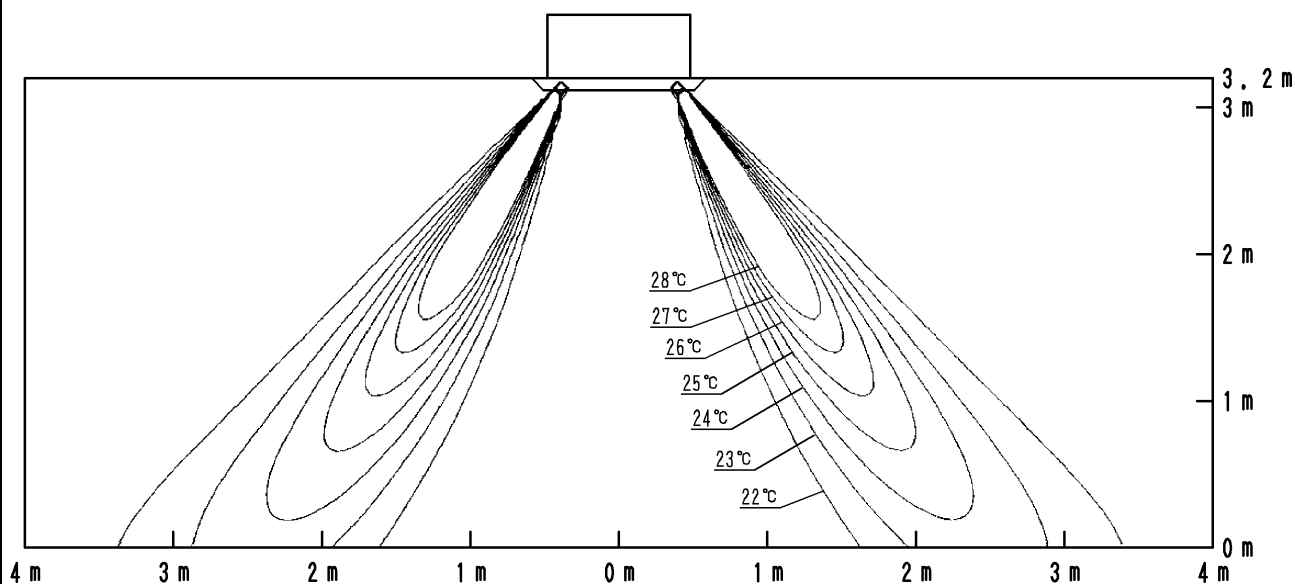
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077047A

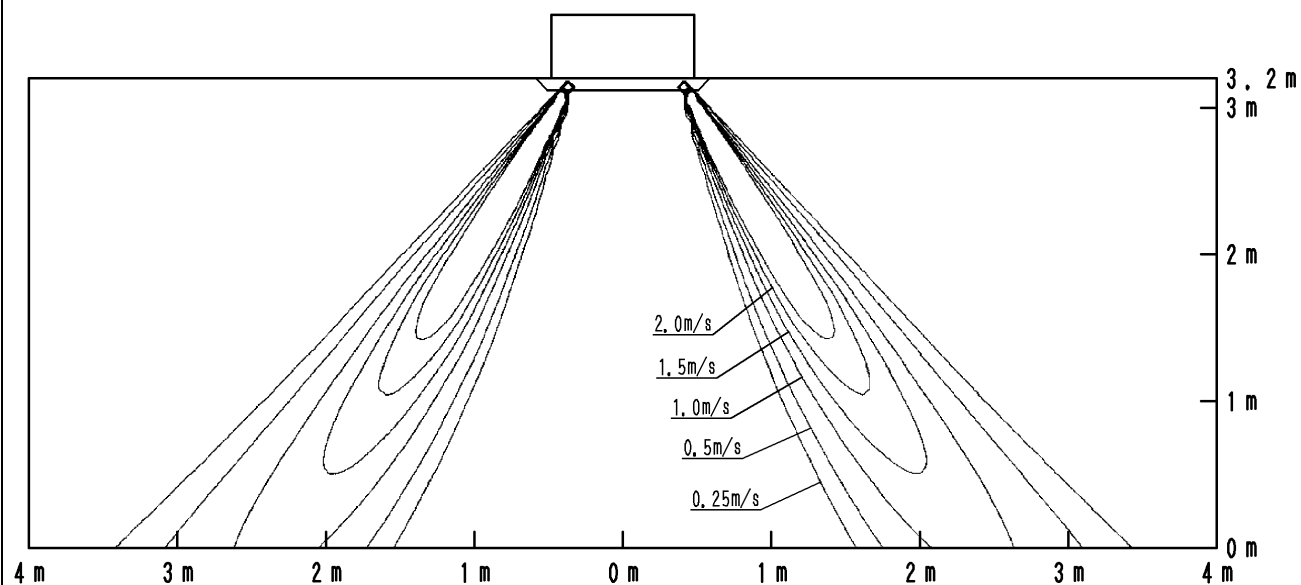
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FXFQ125A

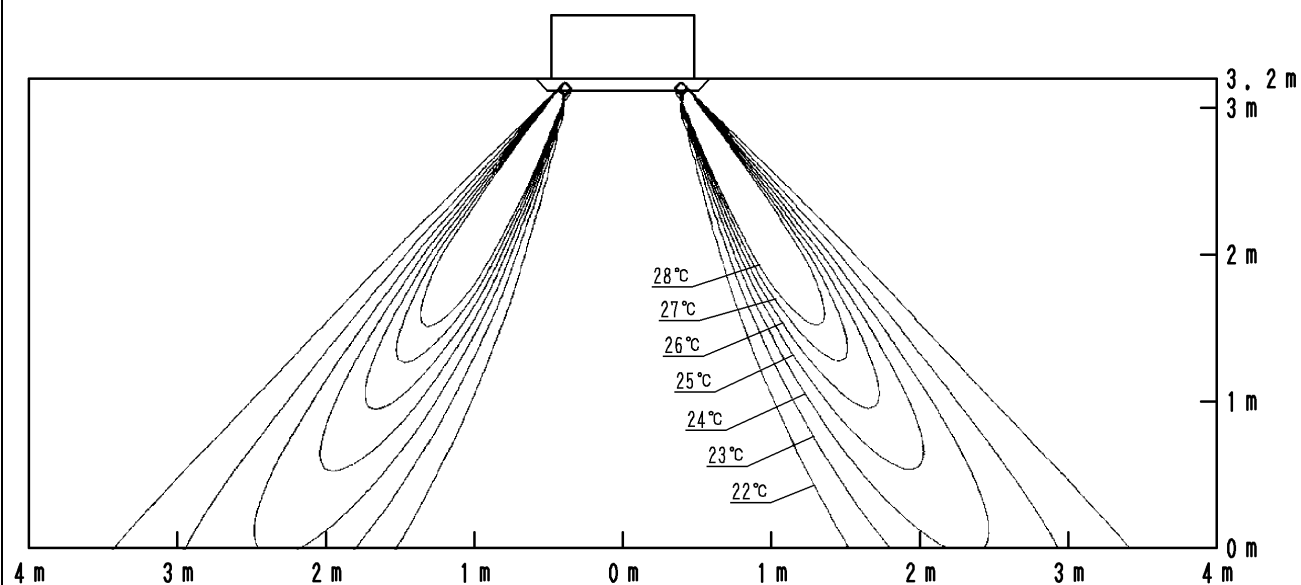
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077052A



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